<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5578
Met Asp Xaa Gln Thr Asn Gly Thr Lys Leu Arg Ser Gln Ile Glu Ile
1 5 10 15

Asn Gln Ser Val Asp Leu Leu Ile Tyr Gly Asn Val Phe Cys Glu Ile
20 25 30

Tyr Gln Leu Met Gly Lys Arg Leu Phe Lys Thr
35 40

<210> 5579
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (132)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5579

```
Thr Ser Gly Ile Gly Thr Ser Pro Ser Leu Arg Ser Leu Gln Ser Leu
  1               5                  10                  15

Leu Gly Pro Ser Ser Lys Phe Arg His Ala Gln Gly Thr Val Leu His
             20                  25                  30

Arg Asp Ser His Ile Thr Asn Leu Lys Gly Leu Asn Leu Thr Thr Pro
         35                  40                  45

Gly Glu Ser Asp Gly Phe Cys Ala Asn Lys Leu Arg Val Ala Val Pro
     50                  55                  60

Leu Leu Ser Ser Xaa Xaa Gln Val Ala Val Leu Glu Leu Arg Lys Pro
 65                  70                  75                  80

Gly Arg Leu Pro Asp Thr Ala Leu Pro Thr Leu Gln Asn Gly Ala Ala
                 85                  90                  95

Val Thr Asp Leu Ala Trp Asp Pro Phe Asp Pro His Arg Leu Ala Val
            100                 105                 110
```

Ala Gly Glu Asp Ala Xaa Ile Arg Leu Trp Xaa Val Pro Ala Xaa Gly
115 120 125

Xaa Xaa Arg Xaa Xaa His Xaa Xaa Xaa Asn Cys Ala Tyr Lys Ala
130 135 140

<210> 5580
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5580
Ser Asn Ser Leu Gln Val Trp Gly Trp Gln Ile Leu Ala Pro Leu Lys
1 5 10 15

Trp Ile Pro His Ala His Ala Ser Leu Phe Phe Ser Val Ala Arg Gly
20 25 30

Xaa Met Asp Lys Pro Lys Leu Gln Leu Lys Thr Xaa His Arg Pro Gly
35 40 45

Thr Val Thr His Ala Phe Asn Ile Ser Thr Leu Gly Xaa Gln Gly Gly
50 55 60

Arg Ile Thr
65

<210> 5581
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5581
Gly Leu Pro Lys Ala Gln Gln Glu Gln Leu Leu Leu Ile Leu Gln Xaa
1 5 10 15

Pro Xaa Pro Arg Pro Ala Phe His Pro Lys Pro His Leu Val Ser Met
20 25 30

Ser Ile Ser Thr Val Trp Pro Ser Cys Asp Cys Ser Leu Ala Ala Thr
35 40 45

Pro Ser Val Ile Pro His Ser Glu Ser Ser Phe Ser Gly Ser Leu Ala
50 55 60

Phe Ser
65

<210> 5582
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5582
Ser Leu Ile Ser Asp Ala Leu Arg Phe Leu Arg Ser Glu Met Ile Lys
1 5 10 15

Leu Tyr Ser Leu Val Tyr Trp Tyr Phe Phe Thr Ser Ser Glu Ile Gly
20 25 30

Xaa Met Leu Tyr Val Arg Arg Ala Phe Phe Lys Leu Cys Cys Phe Glu
35 40 45

His Val Tyr Leu Phe
50

<210> 5583
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5583
Gln Gly Lys Lys Ser Ala Val Cys Leu Val Phe Ile Phe Val Phe Thr
1 5 10 15

Gln Val Gly Leu Leu Phe Glu Thr Phe Phe Leu Asn Lys Arg Ser Tyr
20 25 30

Lys Val Phe Thr Phe Ser Pro Ser Lys Asn Pro Ile Phe Leu Glu Phe
35 40 45

Gly Leu Ser Ile Ile Ser Gly Ile Lys Glu
50 55

<210> 5584
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5584
Thr Thr Val Asn Ile His Val Gly Gly Gly Gly Arg Leu Arg Pro Ala
1 5 10 15

Lys Ala Gln Val Arg Leu Asn His Pro Ala Leu Leu Ala Ser Thr Gln
20 25 30

Glu Ser Met Gly Leu His Arg Ala Gln Gly Leu Leu Met Pro Pro Ser
35 40 45

Thr Cys Glu Pro Gly His Glu Ala Ser Leu Lys Gln Gly Phe Gln Pro
50 55 60

Asp Ala Ile Asp Pro Gln Asn Leu Thr Trp Lys Ser Arg His
65 70 75

<210> 5585
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5585
Ile Ser Lys Gln Leu Tyr Phe Phe Ile Gln Ala Cys His Cys Glu Pro
1 5 10 15

Val Leu Ile Val Ser Glu Leu Phe Val Xaa Pro Glu Phe Cys Leu Leu
20 25 30

Ile Ser Phe Gln Leu His Ser Xaa Ser Phe Phe Asn Cys Val Gly Gly
35 40 45

Lys Asn Asn Gly Arg Asn
50

<210> 5586
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5586
Leu Tyr Ser Phe Ser Ser Leu Leu Pro Leu Ser Pro Arg Trp Lys Lys
1 5 10 15

Arg Thr Asn Val Glu Thr Pro Glu Gly Val Gln Leu Asp Gln Gly Asp
20 25 30

Ile Arg His Leu Thr Val Phe Ser Val Cys Pro Ser Leu Tyr Ser Asn
35 40 45

Val Arg Asn Gly Ser Val Phe Phe Phe Thr Phe Ile Gly Ser Ser Tyr
50 55 60

Phe Ser Thr Leu Phe Leu Met Cys Ser Phe Phe Asn Trp Leu Val Phe
65 70 75 80

Pro Tyr Tyr Leu Gln Leu Tyr Gly Leu
85

<210> 5587
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5587
Gln Lys Asn Pro Leu Met Val Cys Phe Leu Tyr Trp Ala Thr Gln Trp
1 5 10 15

Cys Xaa Lys Val Tyr Met Lys Pro Gln Cys Lys Gln Gly Leu Ser Ser
20 25 30

Gln Asp Ile Asn Phe Asp Arg Lys Xaa Cys Val Phe Met Cys Val Cys
35 40 45

Val Ser Gly Cys Asn
50

<210> 5588
<211> 46
<212> PRT
<213> Homo sapiens

<400> 5588
Phe Cys Lys Tyr Asn Asn Asn Ser Asn Asn Thr Ile Leu Ser Phe Lys
1 5 10 15

Lys Leu Pro Ile His Phe Ser Asn Leu Thr Val Ser Gly Gly Val Tyr
20 25 30

Val Cys Leu Cys Phe His Leu Cys Asn Gly Cys Leu Ile Ile
35 40 45

<210> 5589
<211> 58
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5589
Cys Leu Thr Met Ala Ser Glu His Val Lys Cys Thr Tyr Ile Leu Gln
1 5 10 15

Pro Lys Thr Val Cys Ile Lys Leu Gln Pro Ser Ile Ile Lys Phe Xaa
20 25 30

Val Gln Phe Gln Asp Gly Asn Gln Gly Phe Phe Phe Arg Asp Val Lys
35 40 45

Lys Ser Pro Ser Xaa Ile Ile Leu Asn Leu
50 55

<210> 5590
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5590
Gln Leu Asn Phe Met Asn Met Phe Val Lys Leu Leu Phe Tyr Ile Ser
1 5 10 15

Cys Gln Ile Glu Lys Phe Ile Ser Ser Leu Leu Tyr Leu Trp Lys Tyr
20 25 30

Lys Pro Phe Tyr Arg Lys Lys Ser Ser Lys Thr Ile Lys Trp Ile Ser
35 40 45

Ala Cys Phe Val Ser His Cys Leu Gln Ile Leu Trp Leu Ser Xaa Gly
50 55 60

His Arg Ala Leu Val Gly Cys Thr Gly Xaa Pro Ile Phe Pro
65 70 75

<210> 5591
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5591
Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Xaa
1 5 10 15

Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
20 25 30

Gly Thr Ala Lys Val Tyr Gly Met Val Cys
35 40

<210> 5592
<211> 502
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (128)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5592
Pro Val Ala Ala Val Ser Gly Arg Ala Val Gly Gly Ser Arg Gly Gly
1 5 10 15

Gly Arg Gly Gly Met Ala Ala Ala Ala Ala Gly Ala Gly Ser Gly Pro
20 25 30

```
Trp Ala Ala Gln Glu Lys Gln Phe Pro Pro Ala Leu Leu Ser Phe Phe
         35                  40                  45

Ile Tyr Asn Pro Arg Phe Gly Pro Arg Glu Gly Gln Glu Glu Asn Lys
     50                  55                  60

Ile Leu Phe Tyr His Pro Asn Glu Val Glu Lys Asn Glu Lys Ile Arg
 65                  70                  75                  80

Asn Val Gly Leu Cys Glu Ala Ile Val Gln Phe Thr Arg Thr Phe Ser
                 85                  90                  95

Pro Ser Lys Pro Ala Lys Ser Leu His Thr Gln Lys Asn Arg Gln Phe
            100                 105                 110

Phe Asn Glu Pro Glu Glu Asn Phe Trp Met Val Met Val Val Arg Xaa
        115                 120                 125

Pro Ile Ile Glu Lys Gln Ser Lys Asp Gly Lys Pro Val Ile Glu Tyr
    130                 135                 140

Gln Glu Glu Glu Leu Leu Asp Lys Val Tyr Ser Ser Val Leu Arg Gln
145                 150                 155                 160

Cys Tyr Ser Met Tyr Lys Leu Phe Asn Gly Thr Phe Leu Lys Ala Met
                165                 170                 175

Glu Asp Gly Gly Val Lys Leu Leu Lys Glu Arg Leu Glu Lys Phe Phe
            180                 185                 190

His Arg Tyr Leu Gln Thr Leu His Leu Gln Ser Cys Asp Leu Leu Asp
        195                 200                 205

Ile Phe Gly Gly Ile Ser Phe Phe Pro Leu Asp Lys Met Thr Tyr Leu
    210                 215                 220

Lys Ile Gln Ser Phe Ile Asn Arg Met Glu Glu Ser Leu Asn Ile Val
225                 230                 235                 240

Lys Tyr Thr Ala Phe Leu Tyr Asn Asp Gln Leu Ile Trp Ser Gly Leu
                245                 250                 255

Glu Gln Asp Asp Met Arg Ile Leu Tyr Lys Tyr Leu Thr Thr Ser Leu
            260                 265                 270

Phe Pro Arg His Ile Glu Pro Glu Leu Ala Gly Arg Asp Ser Pro Ile
        275                 280                 285

Arg Ala Glu Met Pro Gly Asn Leu Gln His Tyr Gly Arg Phe Leu Thr
    290                 295                 300
```

```
Gly Pro Leu Asn Leu Asn Asp Pro Asp Ala Lys Cys Arg Phe Pro Lys
305                 310                 315                 320

Ile Phe Val Asn Thr Asp Asp Thr Tyr Glu Glu Leu His Leu Ile Val
                325                 330                 335

Tyr Lys Ala Met Ser Ala Ala Val Cys Phe Met Ile Asp Ala Ser Val
            340                 345                 350

His Pro Thr Leu Asp Phe Cys Arg Arg Leu Asp Ser Ile Val Gly Pro
        355                 360                 365

Gln Leu Thr Val Leu Ala Ser Asp Ile Cys Glu Gln Phe Asn Ile Asn
    370                 375                 380

Lys Arg Met Ser Gly Ser Glu Lys Glu Pro Gln Phe Lys Phe Ile Tyr
385                 390                 395                 400

Phe Asn His Met Asn Leu Ala Glu Lys Ser Thr Val His Met Arg Lys
                405                 410                 415

Thr Pro Ser Val Ser Leu Thr Ser Val His Pro Asp Leu Met Lys Ile
            420                 425                 430

Leu Gly Asp Ile Asn Ser Asp Phe Thr Arg Val Asp Glu Asp Glu Glu
        435                 440                 445

Ile Ile Val Lys Ala Met Ser Asp Tyr Trp Val Val Gly Lys Lys Ser
    450                 455                 460

Asp Arg Arg Glu Leu Tyr Val Ile Leu Asn Gln Lys Asn Ala Asn Leu
465                 470                 475                 480

Ile Glu Val Asn Glu Glu Val Lys Lys Leu Cys Ala Thr Gln Phe Asn
                485                 490                 495

Asn Ile Phe Phe Leu Asp
            500
```

<210> 5593
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5593
Asn Pro Gly Ile Leu Ser Pro Ser Asn Leu Lys Val Phe Lys Leu Ile
1 5 10 15

Leu Phe Tyr Val Phe Leu Ala Val Tyr Val Leu Leu Lys Ser Leu Ser
20 25 30

Phe Cys Val Lys Ile Cys Leu Ser Leu Leu His Phe Thr Ala Ser Lys
35 40 45

Ile Lys Asn Thr Tyr Ile Leu Leu Xaa Ile Asp Ala Ser Lys
50 55 60

<210> 5594
<211> 453
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (327)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5594
Ser Ile Phe Arg Val Ser Pro Gly Phe Arg Ile Ala Met Ile Ile Pro
1 5 10 15

Ser Leu Glu Glu Leu Asp Ser Leu Lys Tyr Ser Asp Leu Gln Asn Leu
20 25 30

Ala Lys Ser Leu Gly Leu Arg Ala Asn Leu Arg Ala Thr Lys Leu Leu
35 40 45

Lys Ala Leu Lys Gly Tyr Ile Lys His Glu Ala Arg Lys Gly Asn Glu
50 55 60

Asn Gln Asp Glu Ser Gln Thr Ser Ala Ser Ser Cys Asp Glu Thr Glu
65 70 75 80

Ile Gln Ile Ser Asn Gln Glu Glu Ala Glu Arg Gln Pro Leu Gly His
85 90 95

Val Thr Lys Thr Arg Arg Arg Cys Lys Thr Val Arg Val Asp Pro Asp
100 105 110

Ser Gln Gln Asn His Ser Glu Ile Lys Ile Ser Asn Pro Thr Glu Phe
115 120 125

```
Gln Asn His Glu Lys Gln Glu Ser Gln Asp Leu Arg Ala Thr Ala Lys
    130                 135                 140

Val Pro Ser Pro Pro Asp Glu His Gln Glu Ala Glu Asn Ala Val Ser
145                 150                 155                 160

Ser Gly Asn Arg Asp Ser Lys Val Pro Ser Glu Gly Lys Lys Ser Leu
                165                 170                 175

Tyr Thr Asp Glu Ser Ser Lys Pro Gly Lys Asn Lys Arg Thr Ala Ile
            180                 185                 190

Thr Thr Pro Asn Phe Lys Lys Leu His Glu Ala His Phe Lys Glu Met
        195                 200                 205

Glu Ser Ile Asp Gln Tyr Ile Glu Arg Lys Lys Lys His Phe Glu Glu
    210                 215                 220

His Asn Ser Met Asn Glu Leu Lys Gln Gln Pro Ile Asn Lys Gly Gly
225                 230                 235                 240

Val Arg Thr Pro Val Pro Pro Arg Gly Arg Leu Ser Val Ala Ser Thr
                245                 250                 255

Pro Ile Ser Gln Arg Arg Ser Gln Gly Arg Ser Cys Gly Pro Ala Ser
            260                 265                 270

Gln Ser Thr Leu Gly Leu Lys Gly Ser Leu Lys Arg Ser Ala Ile Ser
        275                 280                 285

Ala Ala Lys Thr Gly Val Arg Phe Ser Ala Ala Thr Lys Asp Asn Glu
    290                 295                 300

His Lys Arg Ser Leu Thr Lys Thr Pro Ala Arg Lys Ser Ala His Val
305                 310                 315                 320

Thr Val Ser Gly Gly Thr Xaa Lys Gly Glu Ala Val Leu Gly Thr His
                325                 330                 335

Lys Leu Lys Thr Ile Thr Gly Asn Ser Ala Ala Val Ile Thr Pro Phe
            340                 345                 350

Lys Leu Thr Thr Glu Ala Thr Gln Thr Pro Val Ser Asn Lys Lys Pro
        355                 360                 365

Val Phe Asp Leu Lys Ala Ser Leu Ser Arg Pro Leu Asn Tyr Glu Pro
    370                 375                 380

His Lys Gly Lys Leu Lys Pro Trp Gly Gln Ser Lys Glu Asn Asn Tyr
385                 390                 395                 400
```

Leu Asn Gln His Val Asn Arg Ile Asn Phe Tyr Lys Lys Thr Tyr Lys
405 410 415

Gln Pro His Leu Gln Thr Lys Glu Glu Gln Arg Lys Lys Arg Glu Gln
420 425 430

Glu Arg Lys Glu Lys Lys Ala Lys Val Leu Gly Met Arg Arg Gly Leu
435 440 445

Ile Leu Ala Glu Asp
450

<210> 5595
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5595
Leu Leu Lys Lys Lys Ser Gly Glu Glu Arg Tyr Leu Ser Asn Leu Leu
1 5 10 15

Asn Leu Tyr Lys Thr Leu His Cys Arg Gly Gly Ala Thr Pro Lys Tyr
20 25 30

Phe His Asp Leu His Gly Leu Ile Arg Phe Phe Phe Phe Tyr Thr Ile
35 40 45

Leu Ala Thr Phe Ser Met Glu Lys Arg Gln Phe Thr Gln Phe Pro Xaa
50 55 60

<210> 5596
<211> 307
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (300)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5596

```
His Thr Lys Lys Met Ser Met Leu Lys Pro Ser Gly Leu Lys Ala Pro
  1               5                  10                  15

Thr Lys Ile Leu Lys Pro Gly Ser Thr Ala Leu Lys Thr Pro Thr Ala
             20                  25                  30

Val Val Ala Pro Val Glu Lys Thr Ile Ser Ser Glu Lys Ala Ser Ser
         35                  40                  45

Thr Pro Ser Ser Glu Thr Gln Glu Glu Phe Val Asp Asp Phe Arg Val
     50                  55                  60

Gly Glu Arg Val Trp Val Asn Gly Asn Lys Pro Gly Phe Ile Gln Phe
 65                  70                  75                  80

Leu Gly Glu Thr Gln Phe Ala Pro Gly Gln Trp Ala Gly Ile Val Leu
                 85                  90                  95

Asp Glu Pro Ile Gly Lys Asn Asp Gly Ser Val Ala Gly Val Arg Tyr
            100                 105                 110

Phe Gln Cys Glu Pro Leu Lys Gly Ile Phe Thr Arg Pro Ser Lys Leu
        115                 120                 125

Thr Arg Lys Val Gln Ala Glu Asp Glu Ala Asn Gly Leu Gln Thr Thr
    130                 135                 140

Pro Ala Xaa Arg Ala Thr Ser Pro Leu Cys Thr Ser Thr Ala Ser Met
145                 150                 155                 160

Val Ser Ser Ser Pro Ser Thr Pro Ser Asn Ile Pro Gln Lys Pro Ser
                165                 170                 175

Gln Pro Ala Ala Lys Glu Pro Ser Ala Thr Pro Pro Ile Ser Asn Leu
            180                 185                 190

Thr Lys Thr Ala Ser Glu Ser Ile Ser Asn Leu Ser Glu Ala Gly Ser
        195                 200                 205

Ile Lys Lys Gly Glu Arg Glu Leu Lys Ile Gly Asp Arg Val Leu Val
    210                 215                 220

Gly Gly Thr Lys Ala Gly Val Val Arg Phe Leu Gly Glu Thr Asp Phe
225                 230                 235                 240
```

```
Ala Lys Gly Glu Trp Cys Gly Val Glu Leu Asp Glu Pro Leu Gly Lys
               245                 250                 255

Asn Asp Gly Ala Val Ala Gly Thr Arg Tyr Phe Gln Cys Gln Pro Lys
            260                 265                 270

Tyr Gly Leu Phe Ala Pro Val His Lys Val Thr Lys Ile Gly Phe Pro
        275                 280                 285

Ser Thr Thr Pro Ala Lys Ala Lys Ala Asn Ala Xaa Gly Glu Leu Trp
    290                 295                 300

Arg Pro Arg
305
```

<210> 5597
<211> 118
<212> PRT
<213> Homo sapiens

<400> 5597

```
Asn Gly Gly Gly Gln His Cys Cys Trp Arg Asn Arg Met Pro His Pro
  1               5                  10                  15

Trp Trp Val Leu His Thr Val Ser Gly Gly Gln Val Ser Cys Gln Pro
             20                  25                  30

Pro Pro Arg Asn Ser Pro Pro Ser Glu Ala Thr Lys Thr Ser Arg Val
        35                  40                  45

Ser Gln Ser Ala Ile Leu Arg Lys Val Leu Arg Gly Thr Asp Lys Val
     50                  55                  60

Arg Arg Glu Ser Cys Gly Leu Glu Ala Ala Arg Asn Lys Pro Ser Arg
 65                  70                  75                  80

Arg Arg Gly Ile Pro Ala Gly Gly Met Gly Gly Ala Gly Ala Trp Glu
                85                  90                  95

Met Arg Thr Gly Leu Val Met Val Cys Gly Arg Gln Leu Leu Arg Trp
            100                 105                 110

Arg Ala Gly Gly Arg Gly
        115
```

<210> 5598

<211> 28
<212> PRT
<213> Homo sapiens

<400> 5598
Gln Tyr Phe Leu Lys Ile Ile Thr Tyr Ile Ile Val Thr Lys His Leu
1 5 10 15

Cys Gln Ile Arg Thr Ser Ser Thr Glu Ala Ala Val
20 25

<210> 5599
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5599
Lys Phe Trp Arg Leu Gly Xaa Leu Arg Ser Arg Ser Gln Gln Val Trp
1 5 10 15

Cys Leu Ala Arg Ala His Ser Ser Leu Pro Ser Cys Cys Val Thr Ala
20 25 30

Trp Trp Glu Gly Gln Ala Ser Ser His Gly Leu Phe Tyr Ser Gly Pro
35 40 45

Xaa Ser Ile Gly Glu Gly Ser Ala Ile Ile Thr Ser Ser Pro Arg His
50 55 60

Leu Gln Gly
65

<210> 5600
<211> 50
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5600
Xaa Ser Val His Thr Leu Tyr Arg Asn Ser Leu Tyr Ser Ile Pro Val
1 5 10 15

Glu Gly His Phe Asn Pro His Ser Ile Pro Ser Val Leu Arg Thr Ser
20 25 30

Ser Lys Ala Ala Cys Ser Ser Ser Ser Val Val Ala Thr Leu Asp Leu
35 40 45

His Val
50

<210> 5601
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5601
Gly Asp Cys Gly Lys Gly Thr Val Tyr Lys Ala Val Gly Met Tyr Arg
1 5 10 15

Lys Ala Gln Gly Ile Gly Gln Gly Ala Gly Leu Phe Ile Val Ile Phe
20 25 30

Thr Ser Gly Leu Ile Leu Gly Gly Gly Gly Val Leu Pro Gly Thr Arg
35 40 45

Pro Tyr Gly
50

<210> 5602
<211> 143
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5602
Lys Gln Phe Ala Ser Gly Asn Arg Thr Ala Gly Ala Val Phe Leu Gln
1 5 10 15

Gln Gln Thr Lys His Arg Gly Arg Thr Gln Ala Ser Thr Glu Gln Ala
20 25 30

Glu Thr Asp Asp Asn Met Asp Thr Lys Ser Ile Leu Glu Glu Leu Leu
35 40 45

Leu Lys Arg Ser Gln Leu Leu Glu Met Cys Tyr Asp Val Cys Glu Gly
50 55 60

Met Ala Phe Leu Glu Ser His Gln Phe Ile His Arg Asp Leu Ala Ala
65 70 75 80

Arg Asn Cys Leu Val Asp Arg Asp Leu Cys Val Lys Val Ser Asp Phe
85 90 95

Gly Met Thr Arg Tyr Val Leu Asp Asp Gln Tyr Val Ser Ser Val Gly
100 105 110

Thr Lys Phe Pro Val Lys Trp Ser Ala Pro Xaa Val Phe His Tyr Phe
115 120 125

Lys Tyr Ser Ser Lys Ser Xaa Arg Met Gly Ile Trp Asp Pro Asp
130 135 140

<210> 5603
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5603
Asn Phe Val Phe Leu Val Glu Lys Gly Phe Leu His Val Gly Gln Xaa
1 5 10 15

Gly Leu Glu Leu Pro Ile Ser Gly Asp Pro Pro Ala Ser Gln Ser Ala
20 25 30

Gly Ile Thr Gly Val Ser Thr Thr Pro Arg Leu
35 40

<210> 5604
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5604
Val Gly Val Ser Ser Gln Leu Lys Lys Lys Xaa Asn Glu Ile Gly Ser
1 5 10 15

Arg Asn Glu Lys Gly Glu Arg Glu Arg Lys Lys Lys Met Asp Val Gly
20 25 30

Asn Phe Val Ala Cys Ser Leu Trp Ile Leu Gln Asn Tyr His Cys Gly
35 40 45

Tyr Cys Leu Thr Trp Leu Leu Leu Ala Met Lys Asn Gln Glu His Phe
50 55 60

His Tyr His Phe Leu Thr Ile His Gln Pro Gln Phe Leu Gly Ile Xaa
65 70 75 80

Leu Lys Phe

<210> 5605
<211> 429
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5605

```
Val Ser Gln Ala Thr Asp Val Glu Val Gly Thr Asp Leu Val Pro Ser
 1               5                  10                  15

Val Thr Val Lys Val Thr Leu Gln Asn Arg Val Xaa Leu Gln Lys Ala
            20                  25                  30

Lys Leu Ser Val Tyr Val Gln Pro Pro Leu Glu Leu Thr Cys Asp Gln
        35                  40                  45

Phe Thr Phe Glu Phe Met Asn Arg Asn Pro Asp Gly Ile Pro Arg Val
    50                  55                  60

Ile Gln Cys Lys Phe Arg Leu Pro Leu Lys Leu Ile Cys Leu Pro Gly
65                  70                  75                  80

Gln Pro Ser Lys Thr Ala Ser His Lys Ile Thr Ile Asp Thr Asn Lys
                85                  90                  95

Ser Pro Val Ser Leu Leu Ser Leu Phe Pro Gly Phe Ala Ser Gln Ser
            100                 105                 110

Asp Asp Asp Gln Val Asn Val Met Gly Phe His Phe Leu Gly Gly Ala
        115                 120                 125

Arg Ile Thr Val Leu Ala Ser Lys Thr Ser Gln Arg Tyr Arg Ile Gln
    130                 135                 140

Ser Glu Gln Phe Glu Asp Leu Trp Leu Ile Thr Asn Glu Leu Ile Leu
145                 150                 155                 160

Arg Leu Gln Glu Tyr Phe Glu Lys Gln Gly Val Lys Asp Phe Ala Cys
                165                 170                 175

Ser Phe Ser Gly Ser Ile Pro Leu Gln Glu Tyr Phe Glu Leu Ile Asp
            180                 185                 190

His His Phe Glu Leu Arg Ile Asn Gly Glu Lys Leu Glu Glu Leu Leu
        195                 200                 205

Ser Glu Arg Ala Val Gln Phe Arg Ala Ile Gln Arg Arg Leu Leu Ala
    210                 215                 220

Arg Phe Lys Asp Lys Thr Pro Ala Pro Leu Gln His Leu Asp Thr Leu
225                 230                 235                 240

Leu Asp Gly Thr Tyr Lys Gln Val Ile Ala Leu Ala Asp Ala Val Glu
                245                 250                 255

Glu Asn Gln Gly Asn Leu Phe Gln Ser Phe Thr Arg Leu Lys Ser Ala
            260                 265                 270
```

```
Thr His Leu Val Ile Leu Leu Ile Ala Leu Trp Gln Lys Leu Ser Ala
        275                 280                 285

Asp Gln Val Ala Ile Leu Glu Ala Ala Phe Leu Pro Leu Gln Glu Asp
    290                 295                 300

Thr Gln Glu Leu Gly Trp Glu Glu Thr Val Asp Ala Ala Ile Ser His
305                 310                 315                 320

Leu Leu Lys Thr Cys Leu Ser Lys Ser Ser Lys Glu Gln Ala Leu Asn
                325                 330                 335

Leu Asn Ser Gln Leu Asn Ile Pro Lys Asp Thr Ser Gln Leu Lys Lys
            340                 345                 350

His Ile Thr Leu Leu Cys Asp Arg Leu Ser Lys Gly Gly Arg Leu Cys
        355                 360                 365

Leu Ser Thr Asp Ala Ala Ala Pro Gln Thr Met Val Met Pro Gly Gly
    370                 375                 380

Cys Thr Thr Ile Pro Glu Ser Asp Leu Glu Glu Arg Ser Val Glu Gln
385                 390                 395                 400

Asp Ser Thr Glu Leu Phe Thr Asn His Arg His Leu Thr Ala Glu Thr
                405                 410                 415

Pro Arg Pro Glu Val Ser Pro Leu Gln Gly Val Ser Glu
            420                 425
```

<210> 5606
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5606

```
Asn Ile Thr Thr Met Asn Pro Thr Ser His Cys Lys Asp Cys Val Leu
  1               5                  10                  15

Tyr Phe Asp Leu Ser Ser Gly Ile Gly Asp Thr Leu Phe Gly His His
             20                  25                  30

Glu Gly Thr Met Gln Asn Pro Ser Phe Xaa Asn Ser Phe Leu Ser Ser
```

35 40 45

Ile Glu Asp Pro Lys Asn Gln Thr Phe Arg Val
50 55

<210> 5607
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5607
Lys Pro Gly His Thr Ala Gly Asp Glu Trp Lys Ala Ser Glu Thr Ser
1 5 10 15

Trp Val Phe Thr Ala Ile Pro Arg Arg Ser His Tyr His Leu Ser Cys
20 25 30

Val Ser Cys Glu Ile Ser Ser Ser Ile Arg Phe Ser Arg Ser Thr Asn
35 40 45

Pro Phe Gly Thr Val Cys Glu Gly Ser Lys Leu Arg Ile Ser Tyr Glu
50 55 60

Asn Leu Ile Pro Asp Asp Leu Leu Leu Ser Pro Thr Thr Pro Arg Trp
65 70 75 80

Asp His Leu Val Ala Gly Lys Gln Ala Gln Ala Pro Thr Asp Ser Xaa
85 90 95

Leu

<210> 5608
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5608
Gln Arg Lys Arg Glu Glu Glu Gly Arg Leu Asp Thr Glu Arg Cys Leu
1 5 10 15

Ala Arg Gly Ser Gln Ser Gly Val Gln Pro Leu Gly Gly Pro Thr Pro

20 25 30

Gly Glu Asp His Leu Pro Thr Ser Ser Ile Pro Thr Leu Pro Ala Pro
35 40 45

His Pro Ser Cys
50

<210> 5609
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5609
Ala Xaa Thr Asn Phe Thr Gln Glu Xaa Ala Met Thr Met Ile Thr Pro
1 5 10 15

Ser Ser Asn Thr Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr
20 25 30

Arg Ser Gly Ile Pro Gly Ser Thr His Ala Ser Gly Arg Gln Arg Leu
35 40 45

Gln

<210> 5610
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5610
Leu Ala Lys Glu Val Lys Pro Arg Gly Phe Pro Gly Gly Lys Ile Phe
1 5 10 15

Pro Pro Gly Gly Xaa Xaa Gly Asn Pro Pro Thr Gly Pro Val Xaa Pro
20 25 30

Gly Val Pro Lys Phe Lys Thr Pro Lys Phe
35 40

<210> 5611
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5611
His Ala Gln Gly Glu Ala Arg Val Gln Pro Leu Arg Gly Leu Leu Gln
1 5 10 15

Glu Arg Gly Gly Gln Gln Pro Trp Gly Arg Gly Arg Pro Arg Gly Gly

```
            20                  25                  30

Gly His Gln Gly Thr Ala Arg Trp Ala Ser Ser Cys Pro Xaa Ser Trp
        35                  40                  45

Ala Arg Ser Lys Ala Arg Xaa Asp Leu Leu Ala Trp Gln Pro Xaa Pro
    50                  55                  60

Gly Ala Arg Ile Ala Ala Pro Val Ile Gln Asn Pro Ala Glu Gln Xaa
65                  70                  75                  80

Pro Cys Ser Cys Ala
                85
```

<210> 5612
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5612

```
Thr Lys Phe His Phe Val Cys Val Cys Val His Val Cys Val Ser Thr
  1               5                  10                  15

Gly Gly Leu Cys Phe Ile Leu Cys Phe Phe Asp Ser Cys Ala Thr Ser
            20                  25                  30

Leu Pro His Ser Pro Lys Lys Asp Lys Thr Lys Leu Ser Thr Asn Pro
        35                  40                  45

His Ile Xaa Val Cys Leu Ser Xaa Thr Leu Thr Thr Val Pro Ile Ile
    50                  55                  60

Met Ser Ser Tyr Ile Pro Cys Lys Ile Trp Val Val Ser Tyr Thr Ala
65                  70                  75                  80
```

Gly Leu His Leu Thr Leu Glu Gly Lys Lys Xaa
85 90

<210> 5613
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5613
Asn Ser Glu Lys Glu Gln Trp Leu Cys Ser Phe Leu Ala Asn Xaa Leu
1 5 10 15

Gln Lys Glu Ser Thr Trp Thr Ser Val Pro Gly Val Glu Ile Leu Arg
20 25 30

Gly Xaa Glu Leu Val Gly Glu His Phe Pro Thr Trp Leu Arg Gln Gly
35 40 45

Phe Xaa Trp Gly Arg Gly Arg Xaa Tyr Ser Gly Gly Xaa Ser Pro Pro
50 55 60

Arg Arg His His Thr Phe Pro Pro Gly Val Pro Gln Gly Pro Arg
65 70 75

<210> 5614
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5614
Leu Ser Phe Phe Ser Leu Thr Ala Ser Tyr Ser Pro Ile Gln Pro His
1 5 10 15

Ser Leu Ile Lys His Gln Gln Ile Pro Leu His Ser Pro Pro Ser Lys
20 25 30

Val Ser His His Gln Leu Ile Leu Gln Gln Gln Gln Gln Gln Ile Gln
35 40 45

Pro Ile Thr Leu Gln Asn Ser Thr Gln Asp Pro Pro Pro Ser Gln His
50 55 60

Cys Ile Pro Leu Gln Asn His Gly Leu Pro Pro Ala Pro Ser Asn Ala
65 70 75 80

Gln Ser Gln His Cys Ser Pro Ile Gln Ser His Pro Ser Pro Leu Thr
85 90 95

Val Ser Pro Asn Gln Ser Gln Ser Ala Gln Gln Ser Val Val Val Ser
100 105 110

Pro Pro Pro Pro His Ser Pro Ser Gln Ser Pro Thr Ile Ile Ile His
115 120 125

Pro Gln Ala Leu Ile Gln Pro His Pro Leu Val Ser Ser Ala Leu Gln
130 135 140

Pro Gly Pro Asn Leu Gln Gln Ser Thr Ala Asn Gln Val Gln Ala Thr
145 150 155 160

Ala Gln Leu Asn Leu Pro Ser His Leu Pro Leu Pro Ala Ser Pro Val
165 170 175

Val His Ile Gly Pro Val Gln Gln Ser Ala Leu Val Ser Pro Gly Gln
180 185 190

Gln Ile Val Ser Pro Ser His Gln Gln Tyr Ser Ser Leu Gln Ser Ser

195 200 205

Pro Ile Pro Ile Ala Ser Xaa Pro Gln Met Ser
210 215

<210> 5615
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5615
Pro Ser Arg Leu Leu Xaa Pro Leu Ile Arg Val Ser Ile Lys Leu Lys
1 5 10 15

Leu Arg Pro Asp Arg Arg Thr Ala Ser Xaa
20 25

<210> 5616
<211> 99
<212> PRT
<213> Homo sapiens

<400> 5616
Tyr Arg Ala Thr Phe Leu Asn Val Ser Asp Val Val Arg Pro Ser His
1 5 10 15

Thr Ser Ala Val Ser Phe Ser Ala Ser Leu Gly Leu Ala Phe Cys Ser
20 25 30

Ser Val Pro His Thr Met Ile Pro Leu Gly Gln Ala Phe Ala Cys Ala
35 40 45

Val Ser Pro Val Lys Leu Thr Ser Leu Pro Leu Trp Ala Gln Ile Pro
50 55 60

Ala Gln Val Ala Gly Val Arg Ser Ser Arg Gly Gly Glu Ser Ser Trp
65 70 75 80

Arg Ala Gly Ser Ile Val Arg Arg Lys Gly His Gly Gln Asn Pro Gly
85 90 95

Glu His Arg

<210> 5617
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5617
Gln Val Leu Cys Lys Cys Leu Pro Ser Leu Gln Val Pro Ala Thr Cys
1 5 10 15

Pro Lys Lys Arg His Ile Lys Lys Leu Ser Asp Thr Ser Pro Asp Phe
20 25 30

Ile Tyr Phe Ile Tyr Leu Thr Thr Tyr Met Leu Val Cys Arg Asn Tyr
35 40 45

Ile Leu Asp Leu Phe Pro Tyr Leu Leu Arg Thr Val Leu Leu Leu Lys
50 55 60

Ala Ala Thr
65

<210> 5618
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5618
Ser Cys Gln Val Ser Pro Ala Gly Arg Lys His Cys Xaa Pro Ser Ala
1 5 10 15

```
Gly Ser Ser Leu Glu Ser Gln Xaa Gly Lys Arg Ser Trp Pro Leu Pro
            20                  25                  30

Pro Ala Asp Arg Ser Ser Ala Ser Met Arg Phe Val Val Val Thr Phe
        35                  40                  45

Ser Val Thr Ile Lys Gly Asp Phe Phe Leu Asn Ile Lys Leu Phe Phe
    50                  55                  60

Glu Gln Gly Met Asn Met Ser Phe Cys Asn Val Thr Glu Val Glu Phe
65                  70                  75                  80

Lys
```

<210> 5619
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5619

```
Ala Leu Leu Val His Glu Asp Lys Leu Pro Glu Gly Phe Gly Cys Met
  1               5                  10                  15

Leu His Ser Val Thr Ser Ser Tyr Leu Lys Ile Ser Val Leu Tyr Leu
            20                  25                  30

Ala Leu Tyr Leu Lys Val Asn Thr Asn Leu Thr Tyr Leu Lys Ile Phe
        35                  40                  45
```

<210> 5620
<211> 107
<212> PRT
<213> Homo sapiens

<400> 5620

```
Cys Leu Ser Pro Gly Thr Trp Ala Asp Leu Val Pro Gly Glu Leu Ser
  1               5                  10                  15

Pro Leu Leu Ala Lys Glu Leu Leu Ser Ser Gln Thr Leu Leu Leu Arg
            20                  25                  30

Cys Pro Pro Cys Met Val Phe Glu Val Phe Glu Val Phe Leu Glu Phe
        35                  40                  45
```

```
Thr Cys Trp Arg Leu Gln Leu Thr Glu Arg Pro Gly Leu Asp Cys Ala
     50                  55                  60

Ser Cys Ser Ser Arg Thr Lys Asp Ile Ser Trp Lys Cys Met Arg Pro
 65                  70                  75                  80

Arg Ile Cys Asp Arg Asn Gly Ser Ser His Val Arg Tyr Ala Pro Trp
                 85                  90                  95

Lys Asp Leu Glu Ile Arg Asn Leu Ser Glu His
            100                 105
```

<210> 5621
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5621

```
Phe Tyr Val Arg Tyr Tyr Arg Tyr Phe Glu Met Val Thr Asp Ser Phe
  1               5                  10                  15

Glu Ile Leu Ser Ser Leu Glu Cys Asp Ala Phe Asn Ile Ala Ser Gly
             20                  25                  30

Phe Arg Trp Arg Asn Thr Met Leu Leu Ser Leu Lys Ile Asn Ser Ile
         35                  40                  45

Ser Pro Ile Val
     50
```

<210> 5622
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5622

```
Ser Ser Cys Met Asn Gln Gly Ser His Ser Gly Phe Gln Gly Leu Asp
  1               5                  10                  15

Phe Leu Val Cys Lys Arg Asp Phe Thr Met His Leu Ala Thr Ser Pro
             20                  25                  30
```

Ser Ser Leu Gly Asn Xaa Lys Thr Lys Cys Arg Gln
35 40

<210> 5623
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5623
Gln Gly Asn Pro Lys Leu Gln Lys Leu Lys Gly Gly Glu Glu Gly Pro
1 5 10 15

Val Leu Met Ala Glu Ala Val Lys Lys Val Asn Arg Gly Asn Gly Lys
20 25 30

Thr Ser Ser Arg Ile Leu Leu Leu Thr Lys Gly His Val Ile Leu Thr
35 40 45

Asp Thr Lys Lys Ser Gln Ala Lys Ile Val Ile Gly Leu Xaa Asn Val
50 55 60

Ala Gly Val Ser Val Thr Ser Leu Lys Asp Gly Leu Phe Ser Leu His
65 70 75 80

Leu Ser Xaa Met Ser Ser Val Gly Ser Lys Gly Asp Phe Leu Leu Val
85 90 95

Lys Arg Ala Cys Asp
100

<210> 5624
<211> 73
<212> PRT
<213> Homo sapiens

<400> 5624

```
Asn Arg Ser Val Gln Ser Tyr Phe Phe Leu Thr Leu Asn Phe Pro Ser
 1               5                  10                  15

Arg Glu Tyr Thr Ile Trp Leu Arg Gly Arg Gly Ser Pro Glu Glu Arg
            20                  25                  30

Gly Phe Ala Leu Arg Gly Arg Ala Ser Leu Asp Phe Ala Ala Ser Asn
        35                  40                  45

Phe Ser Arg Gly Val Glu Gly Gly Ala Leu Gly Gly Pro His Ser Leu
    50                  55                  60

Ser Gly Val Pro Ala Arg Val Ser Phe
65                  70
```

<210> 5625
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5625

```
Ser Cys Glu Asp Gly Lys Val Glu Gln Glu Ala Leu Ser Ala Phe Leu
 1               5                  10                  15

His Asp Val Asn Glu Glu Ile Gln Cys Gln Ile Glu Val Asp Gly Thr
            20                  25                  30

Pro Arg Gly Arg Gly Ala Gly Val Gly Ser Asp Val Pro Ser Pro Pro
        35                  40                  45

Ser Pro Gly Pro Thr Asp Cys Gly His Glu Xaa Ala Gly Trp Cys Tyr
    50                  55                  60

Asp Ser Arg Leu Gln His Arg Ala Leu Pro Ser Ser Pro Gln Trp Asp
65                  70                  75                  80

Ile Lys Thr Thr Leu Gly Pro Phe Val Gln Gly Thr Thr Ser Ser Ile
                85                  90                  95

Asp Gly Glu Asn Lys Leu Ser Arg Ala Thr Thr Gly Trp Arg Glu Ala
            100                 105                 110

Gly Thr Ile Val Phe Leu Arg Ser Val Thr Ala Asp Pro Thr Asp His
        115                 120                 125
```

<212> PRT
<213> Homo sapiens

<400> 5628
Asp Ser Val Leu Ser Leu Ile Ser His Asn Gln Leu Phe Leu Leu Val
1 5 10 15

Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu Glu Arg Pro Pro
20 25 30

Pro Arg Trp Ser Ser Ser Phe
35

<210> 5629
<211> 26
<212> PRT
<213> Homo sapiens

<400> 5629
Trp His Met Pro Val Ile Pro Ala Leu Trp Glu Ser Glu Ala Gly Gly
1 5 10 15

Ser Leu Glu Ser Arg Ser Leu Arg Leu Pro
20 25

<210> 5630
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5630
Ile Ala Asn Ser Lys Gly Cys Thr Ser Val Ile Ile Asn Lys Asn Leu
1 5 10 15

Ala Asn Ser Cys Gly Thr Gly Tyr Ser His Leu Ile Cys Leu Val Pro
20 25 30

Lys Ile Ala Cys Pro Phe Pro Asn Ser Ser Gln Leu Asp Cys Ala Thr
35 40 45

Lys Thr Asp Lys Tyr Leu Leu Gly Asn His Asn His Gly Asp Leu Leu
50 55 60

Pro Gln Leu Gly Pro Trp Tyr Ile Phe Val Cys Ile Leu Trp Cys Tyr
65 70 75 80

Met Gln Ile Asn Thr Phe Asn

85

<210> 5631
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5631
Gln Glu Thr Ser Lys Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Val
1 5 10 15

Ala Glu Ile Val Ile His Ile Arg Asn Lys Ile Leu Thr Gly Ala Asp
20 25 30

Gly Lys Asn Leu Thr Lys Asn Asp Leu Tyr Pro Asn Pro Lys Pro Glu
35 40 45

Val Leu His Met Ile Tyr Met Arg Ala Leu Gln Ile Val Tyr Gly Ile
50 55 60

Arg Leu Glu His Phe Tyr Met Met Pro Val Asn Ser Glu Val Met Tyr
65 70 75 80

Pro His Leu Met Gly Arg Xaa Leu Thr Ile Gln Ala Ile
85 90

<210> 5632
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5632

```
Thr Val Leu Gly His Val Leu Tyr Leu Cys Leu Ala Pro His Leu Phe
  1               5                  10                  15

Leu Asp Pro Leu Val Ile Cys Met Thr Thr Phe Lys Asn Phe Asn Phe
             20                  25                  30

Val Cys Cys Leu Arg His Cys Cys Glu His Pro His Gly Val Arg His
         35                  40                  45

Pro Pro Thr Leu Ala Pro Ala Ser Thr Leu Leu His Leu Thr Ser Val
     50                  55                  60

Tyr Pro Ala Ala Leu Leu Leu Leu Leu Val Cys Val Asn Glu Asp Asn
 65                  70                  75                  80

Leu Val Ala Val Thr Tyr Lys Cys Phe Ile Trp His His Pro Ser Val
                 85                  90                  95

Xaa Xaa Xaa Trp Trp Xaa Glu Xaa Thr Leu Ala Pro Thr Pro Xaa His
            100                 105                 110

Thr Ser
```

<210> 5633
<211> 210
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (159)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (182)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (187)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5633
Lys Glu Asn Lys Val Val Leu Ile Val Gly Glu Thr Gly Ser Gly Lys
1 5 10 15

Thr Thr Gln Ile Pro Gln Phe Leu Leu Asp Asp Cys Phe Lys Asn Gly
20 25 30

Ile Pro Cys Arg Ile Phe Cys Thr Gln Pro Arg Arg Leu Ala Ala Ile
35 40 45

Ala Val Ala Glu Arg Val Ala Ala Glu Arg Arg Glu Arg Ile Gly Gln

```
     50                  55                  60

Thr Ile Gly Tyr Gln Ile Arg Leu Glu Ser Arg Val Ser Pro Lys Thr
 65                  70                  75                  80

Leu Leu Thr Phe Cys Thr Asn Gly Val Leu Leu Arg Thr Leu Met Ala
                85                  90                  95

Gly Asp Ser Thr Leu Ser Thr Val Thr His Val Ile Val Asp Glu Val
            100                 105                 110

His Glu Arg Asp Arg Phe Ser Asp Phe Leu Leu Thr Lys Leu Arg Asp
        115                 120                 125

Leu Leu Gln Lys His Pro Thr Leu Lys Leu Ile Leu Ser Ser Ala Ala
    130                 135                 140

Xaa Asp Val Asn Leu Phe Ile Arg Tyr Phe Gly Ser Cys Pro Xaa Ile
145                 150                 155                 160

Tyr Ile Gln Gly Xaa Pro Phe Glu Val Lys Glu Met Phe Leu Glu Asp
                165                 170                 175

Ile Leu Xaa Thr Thr Xaa Xaa Thr Asn Lys Xaa Met Leu Xaa Tyr Lys
            180                 185                 190

Lys Glu Lys Gln Gln Asp Glu Lys Thr Leu Ser Lys Lys Lys Lys Lys
        195                 200                 205

Lys Lys
    210
```

<210> 5634
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5634
Xaa Val Arg Tyr Ile Ala Xaa Xaa Ser Ala Ala Xaa Arg Lys Arg Xaa
1 5 10 15

Val Cys Ser Glu Trp Lys Phe Ala Ala Cys Val Val Asp Arg Leu Cys
20 25 30

Leu Met Ala Phe Ser Val Phe Thr Ile Ile Cys Thr Ile Gly Ile Leu
35 40 45

Met Ser Ala Pro Asn Phe Val Glu Ala Val Ser Lys Asp Phe Ala
50 55 60

<210> 5635
<211> 88
<212> PRT
<213> Homo sapiens

<400> 5635
Pro Ser Thr Leu Asp Cys Ser Leu Thr Glu Cys Leu Ser Leu Ser Ile
1 5 10 15

Leu Cys Pro Phe Tyr Ser Phe Lys Lys Thr Val Ala Val Thr Lys Glu
20 25 30

Leu Phe Leu Ile Pro Arg Leu Cys Gln Thr Lys Val Ser Ser Leu Arg
35 40 45

Leu Leu Asp Phe Asp Ile Lys Tyr Val Phe Ser Ser Ser Asn Phe Ile
50 55 60

Tyr Val Tyr Ser Ser Ser Asp Pro Glu Ile Tyr Phe Leu Leu Ile Ile
65 70 75 80

Leu Thr Trp Ile Pro Gln Ala Ile
85

<210> 5636
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5636
Pro Gly Xaa Pro Gly Arg Pro Thr Arg Pro Ala Arg Cys Gln Gln Pro
1 5 10 15

Gly Ala Arg Ser Gln Glu Gln Ser Ala Ser Met Asn Leu Gly Val Ser
20 25 30

Met Leu Arg Ile Leu Phe Leu Leu Asp Val Gly Gly Ala Gln Val Leu
35 40 45

Ala Thr Gly Lys Thr Pro Gly Ala Glu Ile Asp Phe Lys Tyr Ala Leu
50 55 60

Ile Gly Thr Ala Val Gly Val Ala Ile Ser Ala Gly Phe Leu Ala Leu
65 70 75 80

Lys Ile Cys Met Ile Arg Arg His Leu Phe Asp Asp Asp Ser Ser Asp
85 90 95

Leu Lys Ser Thr Pro Gly Gly Leu Ser Asp Thr Ile Pro Leu Lys Lys
100 105 110

Arg Ala Pro Arg Arg Asn His Asn Phe Ser Lys Arg Asp Ala Gln Val
115 120 125

Ile Glu Leu
130

<210> 5637
<211> 166
<212> PRT
<213> Homo sapiens

<400> 5637
Pro Thr Arg Pro His Ser Ala Arg Leu Thr Met Cys His Ser Arg Ser
1 5 10 15

```
Ile Arg Ile His Ile His Ile His Thr Leu Ile Leu Thr Arg Thr His
 65                  70                  75                  80

Thr Leu Thr Arg Thr Arg Ile Arg Thr Lys Tyr Arg Thr His Thr His
                85                  90                  95

Ser Arg Thr Arg Ser Arg Thr Gly Thr Gly Phe Ser Ala Ala Pro Pro
            100                 105                 110

Thr Leu Pro Glu Arg Gly Ser Ser Arg Ala Arg Gln Gly Phe Glu Asp
        115                 120                 125

Leu Arg Lys Trp Asp Glu His Ile Ser Ile Val Phe Thr Trp Ile Lys
    130                 135                 140

Ser Lys Thr Val Ser Pro Pro Arg Thr Arg Ser Ser Ser Leu Asp Ile
145                 150                 155                 160

Thr Leu Leu Lys Thr Cys Asp Ser Ser
                165
```

<210> 5639
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5639

```
Lys Thr Phe Ser Ile Arg Lys Arg Gly Lys Phe Xaa Pro Ser Lys Phe
  1               5                  10                  15

Asp Tyr Ser Ser Lys Leu Ser Leu Leu Met Gln Ser Ser Phe Val Thr
             20                  25                  30

Leu Thr Leu Gly His Cys Tyr Gln Thr Ser Trp Glu Ile Ser Ser Ser
         35                  40                  45

Arg Arg Leu Asn Thr Cys Arg Lys Gln Met Phe Phe Gly Pro
     50                  55                  60
```

<210> 5640
<211> 337
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5640

```
Ala Pro Ala Cys Gly Ala Xaa Ala Trp Lys Phe Leu Leu Gly Tyr Leu
  1               5                  10                  15

Ser Trp Glu Gly Thr Ala Glu Glu His Lys Ala His Ile Arg Lys Lys
             20                  25                  30

Thr Asp Glu Tyr Phe Arg Met Lys Leu Gln Trp Lys Ser Val Ser Pro
         35                  40                  45

Glu Gln Glu Arg Arg Asn Ser Leu Leu His Gly Tyr Arg Ser Leu Ile
     50                  55                  60

Glu Arg Asp Val Ser Arg Thr Asp Arg Thr Asn Lys Phe Tyr Glu Gly
 65                  70                  75                  80

Pro Glu Asn Pro Gly Leu Gly Leu Leu Asn Asp Ile Leu Leu Thr Tyr
                 85                  90                  95

Cys Met Tyr His Phe Asp Leu Gly Tyr Val Gln Gly Met Ser Asp Leu
            100                 105                 110

Leu Ser Pro Ile Leu Tyr Val Ile Gln Asn Glu Val Asp Ala Phe Trp
        115                 120                 125

Cys Phe Cys Gly Phe Met Glu Leu Val Gln Gly Asn Phe Glu Glu Ser
    130                 135                 140

Gln Glu Thr Met Lys Arg Gln Leu Gly Arg Leu Leu Leu Leu Leu Arg
145                 150                 155                 160

Val Leu Asp Pro Leu Leu Cys Asp Phe Leu Asp Ser Gln Asp Ser Gly
                165                 170                 175

Ser Leu Cys Phe Cys Phe Arg Trp Leu Leu Ile Trp Phe Lys Arg Glu
            180                 185                 190

Phe Pro Phe Pro Asp Val Leu Arg Leu Trp Glu Val Leu Trp Thr Gly
        195                 200                 205

Leu Pro Gly Pro Asn Leu His Leu Leu Val Ala Cys Ala Ile Leu Asp
    210                 215                 220

Met Glu Arg Asp Thr Leu Met Leu Ser Gly Phe Gly Ser Asn Glu Ile
```

225 230 235 240

Leu Lys His Ile Asn Glu Leu Thr Met Lys Leu Ser Val Glu Asp Val
245 250 255

Leu Thr Arg Ala Glu Ala Leu His Arg Gln Leu Thr Ala Cys Pro Glu
260 265 270

Leu Pro His Asn Val Gln Glu Ile Leu Gly Leu Ala Pro Pro Ala Glu
275 280 285

Pro His Ser Pro Ser Pro Thr Ala Ser Pro Leu Pro Leu Ser Pro Thr
290 295 300

Arg Ala Pro Pro Thr Pro Pro Pro Ser Thr Asp Thr Ala Pro Gln Pro
305 310 315 320

Asp Ser Ser Leu Glu Ile Leu Pro Glu Glu Glu Asp Glu Gly Ala Asp
325 330 335

Ser

<210> 5641
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5641
Met Gln Leu Leu Leu Leu Thr Cys Leu Leu Gln Leu Ile Met Val Thr
1 5 10 15

Asn Lys Ala Ile Ala Ser Gln Ile Ser Gln Ile Lys His Phe Phe His
20 25 30

Cys Ile Leu Val Val Val Cys Pro Asn Ser Ser Met Tyr Leu Ile Met
35 40 45

Ser Gly Ser Ile Leu His
50

<210> 5642
<211> 65
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5642
Cys Leu Trp Leu Phe Lys Ser Gln Ser Leu Val Asn His Ile Thr Ile
1 5 10 15

Arg Pro Trp Phe Ser Ile Gly Gly Asp Phe Pro Arg Gly Thr Phe Gly
20 25 30

His Val Leu Glu Ala Phe Trp Leu Ser His Trp Xaa Pro Gly Val Xaa
35 40 45

Leu Pro Xaa Thr Lys Lys Lys Lys Lys Lys Lys Lys Arg Gly Ala Phe
50 55 60

Leu
65

<210> 5643
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5643
Thr Asn Phe Phe Gln Leu Val Lys His His Thr Ser Ser Ala Lys Gly
1 5 10 15

Ile Leu Leu Ala Glu Pro Ser Trp Met Ile Ser Val Thr His Ala Xaa
20 25 30

Thr Cys Ser Leu Glu Gly Ser Gly Glu Trp Ile His Ala Ile Cys Leu
35 40 45

```
Glu Asp Thr Arg Met Ser Gln Pro Pro Asp Leu Val Ile Tyr Lys Leu
     50                  55                  60

Leu Arg Ile Thr Leu Val Tyr Phe Trp Ser Glu Asn Gly Lys Ala Gln
 65                  70                  75                  80

Ile Met Lys
```

<210> 5644
<211> 407
<212> PRT
<213> Homo sapiens

<400> 5644

```
Ala Ala Cys Gln Pro Arg Cys Cys Cys Ser Ser Cys Cys Gly Thr Ala
  1               5                  10                  15

Asp Arg Ala Ala Ala Pro Leu Ser Pro Leu Gln Ala Pro Ile Trp Ala
             20                  25                  30

Pro Ala Thr Ser Met Asp Ala Arg Arg Val Pro Gln Lys Asp Leu Arg
         35                  40                  45

Val Lys Lys Asn Leu Lys Lys Phe Arg Tyr Val Lys Leu Ile Ser Met
     50                  55                  60

Glu Thr Ser Ser Ser Ser Asp Asp Ser Cys Asp Ser Phe Ala Ser Asp
 65                  70                  75                  80

Asn Phe Ala Asn Thr Arg Leu Gln Ser Val Arg Glu Gly Cys Arg Thr
                 85                  90                  95

Arg Ser Gln Cys Arg His Ser Gly Pro Leu Arg Val Ala Met Lys Phe
            100                 105                 110

Pro Ala Arg Ser Thr Arg Gly Ala Thr Asn Lys Lys Ala Glu Ser Arg
        115                 120                 125

Gln Pro Ser Glu Asn Ser Val Thr Asp Ser Asn Ser Asp Ser Glu Asp
    130                 135                 140

Glu Ser Gly Met Asn Phe Leu Glu Lys Arg Ala Leu Asn Ile Lys Gln
145                 150                 155                 160

Asn Lys Ala Met Leu Ala Lys Leu Met Ser Glu Leu Glu Ser Phe Pro
                165                 170                 175
```

```
Gly Ser Phe Arg Gly Arg His Pro Leu Pro Gly Ser Asp Ser Gln Ser
            180                 185                 190

Arg Arg Pro Arg Arg Arg Thr Phe Pro Gly Val Ala Ser Arg Arg Asn
        195                 200                 205

Pro Glu Arg Arg Ala Arg Pro Leu Thr Arg Ser Arg Ser Arg Ile Leu
    210                 215                 220

Gly Ser Leu Asp Ala Leu Pro Met Glu Glu Glu Glu Glu Glu Asp Lys
225                 230                 235                 240

Tyr Met Leu Val Arg Lys Arg Lys Thr Val Asp Gly Tyr Met Asn Glu
                245                 250                 255

Asp Asp Leu Pro Arg Ser Arg Arg Ser Arg Ser Ser Val Thr Leu Pro
            260                 265                 270

His Ile Ile Arg Pro Val Glu Glu Ile Thr Glu Glu Glu Leu Glu Asn
        275                 280                 285

Val Cys Ser Asn Ser Arg Glu Lys Ile Tyr Asn Arg Ser Leu Gly Ser
    290                 295                 300

Thr Cys His Gln Cys Arg Gln Lys Thr Ile Asp Thr Lys Thr Asn Cys
305                 310                 315                 320

Arg Asn Pro Asp Cys Trp Gly Val Arg Gly Gln Phe Cys Gly Pro Cys
                325                 330                 335

Leu Arg Asn Arg Tyr Gly Glu Glu Val Arg Asp Ala Leu Leu Asp Pro
            340                 345                 350

Asn Trp His Cys Pro Pro Cys Arg Gly Ile Cys Asn Cys Ser Phe Cys
        355                 360                 365

Arg Gln Arg Asp Gly Arg Cys Ala Thr Gly Val Leu Val Tyr Leu Ala
    370                 375                 380

Lys Tyr His Gly Phe Gly Asn Val His Ala Tyr Leu Lys Ser Leu Lys
385                 390                 395                 400

Gln Glu Phe Glu Met Gln Ala
                405
```

<210> 5645
<211> 44
<212> PRT
<213> Homo sapiens

<400> 5645
Arg Glu Ala Ser Gly Ser Leu Trp Glu Gln Ser Tyr Lys Leu Ile Glu
1 5 10 15

Ile His Thr Leu Pro Lys Gln Leu Gly Pro Thr Thr Val Pro His Val
20 25 30

Ser Met Gln Asn Tyr Ile Leu Pro Arg Ile Asn Ser
35 40

<210> 5646
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5646
Lys Met Xaa Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
1 5 10 15

Ala Val Xaa Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
20 25 30

Ser Ala Pro Leu Cys Met Tyr Ser Ser Leu Leu Pro Ser Ser Gln Leu
35 40 45

Ser Val Arg Tyr Val Phe Leu Ser
50 55

<210> 5647
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5647
Ser Val Cys Val His Thr Phe Tyr Phe Ser Val Ser Trp Val Tyr Val
1 5 10 15

```
Trp Leu Lys Thr Ile Leu Glu Ser Lys Ser Ile Leu Ile Tyr Lys Lys
            20                  25                  30

Thr Phe Trp
        35
```

<210> 5648
<211> 106
<212> PRT
<213> Homo sapiens

<400> 5648

```
Gln Cys Pro Met Gly Pro Leu Leu Leu Pro Ala Pro Ser Leu Leu Leu
  1               5                  10                  15

Leu Met His Ser Pro Leu Pro Ala Ala Pro Gly Phe Pro Ala Phe Leu
            20                  25                  30

Leu Thr Pro Ser Asn Ser Leu Gly Thr Pro Ala Ala Thr Thr Leu Trp
        35                  40                  45

Val Gly His Trp Asp Pro Leu Ala Gln Ser Trp Leu Leu Leu Thr Pro
    50                  55                  60

Ser Leu Asp Ala Cys Pro Gly Thr Pro Ser Pro Leu Pro Leu Pro Cys
65                  70                  75                  80

Ser Phe Asn Arg Val Asn His Val Tyr Cys Thr Gly Ala Val Val Ile
                85                  90                  95

Ala Glu Thr Ala Gly Trp Arg Arg Ser Arg
            100                 105
```

<210> 5649
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5649

```
Arg Asn Pro Lys Asn Gly Asn Asn Pro Ser His Gly Cys His Thr Leu
  1               5                  10                  15

Leu Thr Cys Ser Ile Pro Thr Gln Glu Leu Pro Ala Tyr Gly Ala Ser
            20                  25                  30

His Trp Ser Thr Ser Tyr Pro Gln His Leu Ser Cys His Cys Gln Gly
```

35 40 45

Thr Tyr Leu Trp Pro Pro Ala Ile Leu Tyr Arg Ala Ile Val Leu Tyr
50 55 60

Ile Leu His Ile Arg Lys Leu Arg Leu Lys Val Asn Leu Ile Cys Leu
65 70 75 80

Cys Gln Ser Gln Asp
85

<210> 5650
<211> 269
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (177)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5650
Gly Pro Tyr Xaa Tyr Phe Leu Pro Gly Glu Cys Leu Asp Cys Ser Pro
1 5 10 15

Leu Leu Val Leu Gln Gly Val Thr His Ala Ala Ile Trp Ala Ala Cys
20 25 30

Ile Ser Tyr Leu Ser Ala Ala Val Pro Pro Glu Leu Arg Thr Ser Ala
35 40 45

Gln Gly Ile Leu Gln Gly Leu His Leu Gly Leu Gly Arg Gly Cys Gly
50 55 60

Ala Met Ile Gly Gly Val Leu Val Asn Tyr Phe Gly Ala Ala Ala Thr
65 70 75 80

Phe Arg Gly Ile Gly Met Ala Cys Leu Val Ile Leu Leu Leu Phe Ala
85 90 95

Leu Ile Gln Trp Leu Ala Val Pro Asp Glu Glu Glu Asp Lys Thr Met
100 105 110

Leu Ala Glu Arg Ile Pro Val Pro Ser Ser Pro Val Pro Ile Ala Thr

```
        115                 120                 125

Ile Asp Leu Val Gln Gln Gln Thr Glu Asp Val Met Pro Arg Ile Glu
    130                 135                 140

Pro Arg Leu Pro Pro Lys Lys Thr Lys His Gln Glu Glu Gln Glu Asp
145                 150                 155                 160

Val Asn Lys Pro Ala Trp Gly Val Ser Ser Ser Pro Trp Val Thr Phe
                165                 170                 175

Xaa Tyr Ala Leu Tyr Gln Ile Lys Glu Met Met Gln Leu Thr Arg Asp
            180                 185                 190

Asn Arg Ala Ser Glu Ile Gln Pro Leu Gln Gly Thr Asn Glu Asn Arg
        195                 200                 205

Glu Asn Ser Pro Ala Gly Arg Ala Gln Pro Val Pro Cys Glu Thr His
    210                 215                 220

Ser Asp Pro Ser Arg Asn Gln Pro Ser Pro Asp Ala Ala Ala Ser Gln
225                 230                 235                 240

Thr Gln Thr Ser Pro Ala His Pro Ser Val Asp Pro Cys Thr Glu Glu
                245                 250                 255

Ser Glu Glu Gln Gln Ala Gln Leu Ala Ala Gly Gly His
            260                 265
```

<210> 5651
<211> 364
<212> PRT
<213> Homo sapiens

<400> 5651

```
Cys Leu Arg Lys Ser Phe Glu Met Thr Val Glu Lys Val Gln Gly Ile
  1               5                  10                  15

Ser Arg Leu Glu Gln Leu Cys Glu Glu Phe Ser Glu Glu Glu Arg Val
             20                  25                  30

Arg Glu Leu Lys Gln Glu Lys Lys Arg Gln Lys Arg Lys Asn Arg Arg
         35                  40                  45

Lys Asn Lys Cys Val Cys Asp Ile Pro Thr Pro Leu Gln Thr Ala Asp
     50                  55                  60

Glu Lys Glu Val Ser Gln Glu Lys Glu Thr Asp Phe Ile Glu Asn Ser
 65                  70                  75                  80
```

```
Ser Cys Lys Ala Cys Gly Ser Thr Glu Asp Gly Asn Thr Cys Val Glu
                 85                  90                  95

Val Ile Val Thr Asn Glu Asn Thr Ser Cys Thr Cys Pro Ser Ser Gly
            100                 105                 110

Asn Leu Leu Gly Ser Pro Lys Ile Lys Lys Gly Leu Ser Pro His Cys
        115                 120                 125

Asn Gly Ser Asp Cys Gly Tyr Ser Ser Ser Met Glu Gly Ser Glu Thr
    130                 135                 140

Gly Ser Arg Glu Gly Ser Asp Val Ala Cys Thr Glu Gly Ile Cys Asn
145                 150                 155                 160

His Asp Glu His Gly Asp Asp Ser Cys Val His His Cys Glu Asp Lys
                165                 170                 175

Glu Asp Asp Gly Asp Ser Cys Val Glu Cys Trp Ala Asn Ser Glu Glu
            180                 185                 190

Asn Asp Thr Lys Gly Lys Asn Lys Lys Lys Lys Lys Ser Lys Ile
        195                 200                 205

Leu Lys Cys Asp Glu His Ile Gln Lys Leu Gly Ser Cys Ile Thr Asp
    210                 215                 220

Pro Gly Asn Arg Glu Thr Ser Gly Asn Thr Met His Thr Val Phe His
225                 230                 235                 240

Arg Asp Lys Thr Lys Asp Thr His Pro Glu Ser Cys Cys Ser Ser Glu
                245                 250                 255

Lys Gly Gly Gln Pro Leu Pro Trp Phe Glu His Arg Lys Asn Val Pro
            260                 265                 270

Gln Phe Ala Glu Pro Thr Glu Thr Leu Phe Gly Pro Asp Ser Gly Lys
        275                 280                 285

Gly Ala Lys Ser Leu Val Glu Leu Leu Asp Glu Ser Glu Cys Thr Ser
    290                 295                 300

Asp Glu Glu Ile Phe Ile Ser Gln Asp Glu Ile Gln Ser Phe Met Ala
305                 310                 315                 320

Asn Asn Gln Ser Phe Tyr Ser Asn Arg Glu Gln Tyr Arg Gln His Leu
                325                 330                 335

Lys Glu Lys Phe Asn Lys Tyr Cys Arg Leu Asn Asp His Lys Arg Pro
            340                 345                 350
```

Ile Cys Ser Gly Trp Leu Thr Thr Ala Gly Ala Asn
355 360

<210> 5652
<211> 90
<212> PRT
<213> Homo sapiens

<400> 5652
Ala Thr Leu Trp Asp Gly His Ala Ala Val Trp His Gly Tyr Glu Val
1 5 10 15

His Gly Met Glu Lys Ile Pro Glu Asp Gly Pro Ala Leu Ile Ile Phe
20 25 30

Tyr His Gly Ala Ile Pro Ile Asp Phe Tyr Tyr Phe Met Ala Lys Ile
35 40 45

Phe Ile His Lys Gly Arg Thr Cys Arg Val Val Ala Asp His Phe Val
50 55 60

Phe Lys Ile Gln Gly Leu Val Tyr Tyr Trp Met Cys Phe Val Leu Tyr
65 70 75 80

Met Asp Gln Glu Lys Asn Val Leu Lys Phe
85 90

<210> 5653
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5653
His Ser Xaa Met Trp Leu Val His Leu Thr Arg Glu Glu Trp Gly Tyr
1 5 10 15

Leu Asp Pro Val Gln Arg Asp Leu Tyr Arg Glu Val Met Leu Glu Asn
20 25 30

Tyr Gly Asn Val Val Ser Leu Gly Ile Leu Leu Arg Leu Pro Thr Thr
35 40 45

```
Arg Ile His Ser Val Asn Ser Cys Pro Ala Leu Ser His Thr Gln Ala
     50                  55                  60

Ser Ala Phe Ser Gly Glu Thr Leu Ala Val Leu Thr Ala Gly Ile Ser
 65                  70                  75                  80

Lys Arg Trp Pro Lys Tyr Arg Leu Pro Ile Asp Ile Ala Arg Pro Cys
                 85                  90                  95

Ser Glu Thr Pro Phe Pro Arg Leu
            100
```

<210> 5654
<211> 49
<212> PRT
<213> Homo sapiens

<400> 5654

```
Pro Leu Lys Thr Phe Pro Val Cys Leu Val Ile Ala Lys Pro Arg Lys
  1               5                  10                  15

Ile Ser Phe Leu Ser Ser Tyr Arg Glu Leu Ala Met Lys Leu Lys Phe
             20                  25                  30

Asn Cys Val Ser Arg Ser Leu Ile Phe Leu Gln Ile Ile Asn Tyr Val
         35                  40                  45

Leu
```

<210> 5655
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5655

```
Lys Leu Asp Phe Lys Ile Thr Asn Glu Arg Asn Leu Ile Leu Phe Cys
  1               5                  10                  15

Asp Arg Ser Gln Val Leu Gln Trp Phe Ala Ile Gln Asn Leu Ile Ile
             20                  25                  30

Val Lys Pro Gln Phe Lys Arg Leu
         35                  40
```

<210> 5656
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5656
Gly Tyr Leu Cys Leu Leu Cys Ile Leu Val Met Ala Arg Ser Arg Leu
1 5 10 15

Ser Thr Thr Gly Arg His Pro Ala Val Val Ser Leu Leu Glu Leu Asn
20 25 30

Val Trp Leu Ser Lys Ile Leu Ser Ile Glu Ser Leu Ser Leu Lys Xaa
35 40 45

Leu Leu Gln Met Asn Ala Gln His Glu Ile Phe Lys Ile Val Ser Tyr
50 55 60

Thr Leu Gly Ser Asn Lys Gln Lys Ile Leu
65 70

<210> 5657
<211> 121
<212> PRT
<213> Homo sapiens

<400> 5657
Phe Ser Val Thr Gly Gln Ala Pro Val Glu Ile Ser Phe Val Leu Leu
1 5 10 15

Trp Ala Gln Arg Trp Trp Trp Phe Gly Ser Ser Glu Asp Cys Leu Gly
20 25 30

Arg Phe Ser Gly His Gly Ala Leu Cys Trp Pro Gly Trp Gly Trp Pro
35 40 45

Arg Arg Cys Pro Phe Pro Gly Ala Leu Trp Trp Leu Gln Lys Thr Ser
50 55 60

Phe Val Glu Asn Cys Phe Ser Ala Trp Asn Gln Thr Ser Ser Arg Trp
65 70 75 80

Phe Gly Pro Cys Pro Cys Val Gly His Tyr His Thr Lys Arg Pro Ile

85 90 95

Lys Ile Lys Lys Ile Lys Lys Lys Lys Thr Asn Tyr Trp Arg Trp Trp
100 105 110

Pro Met Met His Leu Leu Phe Ala Gly
115 120

<210> 5658
<211> 25
<212> PRT
<213> Homo sapiens

<400> 5658
Trp Thr Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Ala Gly Glu Ser
1 5 10 15

Leu Glu Pro Gly Arg Gln Arg Leu Gln
20 25

<210> 5659
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5659
Ser Ile Asp Thr Phe Tyr Ile Gln Phe Tyr Lys Tyr Lys Tyr Tyr Asn
1 5 10 15

Phe Ile Leu Met Val Pro Lys Ile His Phe Leu Arg Leu Lys Ala Cys
20 25 30

Thr Ser Met His Thr Cys Phe Trp Gly Glu Trp Gly Glu Asp Ile Leu
35 40 45

Ile Ile Ser Leu
50

<210> 5660
<211> 49
<212> PRT
<213> Homo sapiens

<400> 5660
Tyr Ile Phe Leu Ile Ser Tyr Arg Leu Tyr Arg Lys Glu Val Leu Glu

1 5 10 15

Lys Leu Ile Glu Lys Cys Val Ser Lys Gly Tyr Val Phe Gln Met Glu
20 25 30

Met Ile Val Arg Ala Arg Gln Leu Asn Tyr Thr Ile Gly Glu Val Cys
35 40 45

Asn

<210> 5661
<211> 222
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5661

```
Gln Trp Val Ala Tyr Gly Ser Glu Pro His Thr Ser Val Pro Val Pro
  1               5                  10                  15

Ala Gly Ser Leu Pro Asp His Ala Val His Arg Pro His Asp Arg Cys
             20                  25                  30

Ala Arg Ser Gly Val Met Pro Pro Ala Gln Leu Thr Thr Ile Asn Gln
         35                  40                  45

Ser Gln Leu Ser Ala Gln Leu Gly Leu Asn Leu Gly Gly Ala Ser Met
     50                  55                  60

Pro His Thr Ser Pro Ser Pro Pro Ala Ser Lys Ser Ala Thr Pro Ser
 65                  70                  75                  80

Pro Ser Ser Ser Ile Asn Glu Glu Asp Ala Asp Glu Ala Asn Arg Ala
                 85                  90                  95

Ile Gly Glu Lys Arg Ala Ala Pro Asp Ser Gly Lys Lys Pro Lys Thr
            100                 105                 110

Pro Lys Xaa Lys Xaa Xaa Lys Asp Pro Asn Glu Pro Gln Lys Pro Val
        115                 120                 125

Ser Ala Tyr Ala Leu Phe Phe Arg Asp Thr Gln Ala Ala Ile Lys Gly
    130                 135                 140

Gln Asn Pro Asn Ala Thr Phe Gly Glu Val Ser Xaa Ile Val Ala Ser
145                 150                 155                 160

Met Trp Asp Ser Leu Gly Glu Glu Gln Lys Gln Val Tyr Lys Arg Lys
                165                 170                 175

Thr Glu Ala Ala Lys Lys Glu Tyr Leu Lys Ala Leu Ala Ala Tyr Arg
            180                 185                 190

Ala Xaa Leu Val Ser Lys Ala Ala Ala Glu Ser Ala Glu Ala Gln Thr
        195                 200                 205

Ile Arg Ser Val Gln Gln Thr Leu Xaa Xaa Thr Asn Leu Thr
    210                 215                 220
```

<210> 5662
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5662
Arg Tyr Ile Ile Thr Lys Leu Lys Leu Cys Phe Cys Phe Ile Gln Arg
1 5 10 15

Asn Leu Lys Ile Ile Asp Lys Lys Phe Leu Phe Arg Ala Met Ser Leu
20 25 30

Tyr His Thr Leu Gly Asn Glu Thr Leu Ser Tyr Val Leu Ser Asp Asn
35 40 45

<210> 5663
<211> 94
<212> PRT
<213> Homo sapiens

<400> 5663
Lys Leu Arg Tyr Ile Leu Pro Lys Asn Phe Phe Asn Lys Ile Ala Lys
1 5 10 15

Asn Ile Leu Phe Arg His Phe Asn Val Pro Ile Tyr Asn Trp Ile Phe
20 25 30

Ser Leu Asn Ser Thr Gln Ser Cys Gly Phe Tyr Phe Gln Leu Ile Phe
35 40 45

Phe Leu Val Gly Ser Val His Gly Ile Ile Ser Leu Ser Arg Gly Leu
50 55 60

Ser Cys Met Cys Ala Glu Phe Val Lys Glu Ser Ile Gly Arg Cys Arg
65 70 75 80

Arg Pro Arg Phe Ala Phe Lys Val Phe Phe Arg Leu Cys Gly
85 90

<210> 5664
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5664
Gly Val Phe Ala Ala Met Tyr Ser Tyr Ser Ser Met Leu Thr Leu Pro
1 5 10 15

```
Phe Asp Val Val Gln Asn Leu Asp Leu Ser Pro Trp Ile Ser Pro Val
            20                  25                  30

Val Pro Ala Ser Arg Gly Ile Phe Leu His Val Ser Gln Pro Pro Ser
        35                  40                  45

Cys Ser Arg Val Leu Leu Asp Leu Gly Phe Ser Cys Pro Ser Leu Leu
    50                  55                  60

Gly
65
```

<210> 5665
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5665

```
Ile Ser Asn Thr Ser Ser Asp Cys Arg Pro Ser Glu Glu Ser Glu Leu
 1               5                  10                  15

Leu Thr Asp Thr Thr Thr Asn Ile Leu Ser Gly Thr Thr Ser Thr Val
            20                  25                  30

Glu Ser Asp Ile Leu Thr Gln Thr Asp Arg Glu Val Ala Leu His Glu
        35                  40                  45

Arg Ser Ser Ser Val Ser Thr Ile Asp Thr Ala Arg Leu Ile Gln Ala
    50                  55                  60

Phe Gly His Glu Arg Val Cys Leu Ser Pro Arg Arg Ile Lys Leu Tyr
65                  70                  75                  80

Ser Ser Ile Thr Asn Gln Gln Arg Arg Tyr Leu Glu Glu Ala Xaa Lys
                85                  90                  95

His Ser Lys Lys Val Leu Xaa Tyr Arg Ser Ser Pro Ser Asp Phe
            100                 105                 110
```

<210> 5666
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5666
Gly Pro Ser Trp Val Arg Leu Gly Leu Ser Trp Ala Leu Tyr Val Phe
1 5 10 15

Trp Ile Gln Gly Tyr Trp Ala Arg Tyr Val Cys Gly Xaa Ile Pro Ser
20 25 30

Leu Pro Gln Pro His Leu Pro Leu Lys Pro Ser Leu Ala Leu Ser Glu
35 40 45

Leu Pro Phe Leu Leu Pro Ser Leu Pro Ser Ala Gln Cys Pro Thr Trp
50 55 60

Leu Phe Cys Tyr Phe Gly Ser Gly Gly Thr Ser Trp Glu Cys Glu Xaa
65 70 75 80

Pro Tyr Arg Lys Ile Ala Leu Gln Glu Glu Xaa Leu Gln Gly Thr Ile
85 90 95

Leu Asn Pro Lys Ala Trp Asn Leu Leu Xaa His Phe Thr Phe Val Xaa
100 105 110

Lys Gly Leu Leu Asn Ala Leu Glu Lys Asp Leu Gly Pro Glu Leu Leu
115 120 125

Ser

<210> 5667
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5667
Pro Ile His Glu Leu Met Pro Glu Asp Arg Ala Ser Thr Pro Arg Thr
1 5 10 15

Thr Thr Met Thr Phe Thr Cys Xaa Xaa Phe Phe Asp Leu Phe Asn Ala
20 25 30

Leu Thr Cys Arg Ser Gln Thr Lys Leu Ile Phe Glu Ile Gly Phe Leu
35 40 45

Arg Asn His Met Phe Leu Tyr Ser Val Leu Gly Ser Ile Leu Gly Gln
50 55 60

Leu Ala Val Ile Tyr Ile Pro Pro Leu Gln Arg Val Phe Gln Thr Glu
65 70 75 80

Asn Leu Gly Ala Leu Asp Leu Leu Phe Leu Thr Gly Leu Ala Ser Ser
85 90 95

Val Phe Ile Leu Ser Glu Leu Leu Lys Leu Cys Glu Lys Tyr Cys Cys
100 105 110

Ser Pro Lys Arg Val Gln Met His Pro Glu Asp Val
115 120

<210> 5668
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5668
Val Ser Val Lys Gln Phe Tyr Phe Ser Tyr Val Thr Val Ala Gly Tyr
1 5 10 15

Asp Leu Asn Phe Val Phe Arg Pro Pro Ala Arg Ile Leu Cys Leu Leu
20 25 30

Leu Tyr Ser Arg Ser Val Phe Leu Pro Arg Leu Arg His Arg Gly Pro
35 40 45

Gln Pro
50

<210> 5669
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (63)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5669
Leu Leu His Leu Ile Leu Tyr Met Ser Asn Ala Ser Phe Leu Ser Val
1 5 10 15

```
Cys Leu Leu Ala Glu Asn Pro Val Gln Leu Ser Pro Gly Cys His Gly
            20                  25                  30

Lys Tyr Asp Lys Glu Xaa Thr Leu Gly Leu Gly Leu Lys Gly Leu Val
        35                  40                  45

Ile Gln Lys Thr Arg Glu Gly Cys Thr Cys Arg Val Ile Tyr Xaa Arg
    50                  55                  60

Asn Leu Ile Lys Tyr Leu Ala His Arg Ser Tyr Lys Glu Ser Phe Gln
65                  70                  75                  80

Arg Gly Pro Leu Ala Thr Ala Gly Phe Phe Val Arg Asn Ile Cys Val
                85                  90                  95

Xaa Phe Tyr Pro Arg Glu Gln Asn Pro Arg Lys Gly Ser Phe Ile Ile
            100                 105                 110

Tyr Ser His Phe Ser Ser Phe Leu Asn Lys Thr Phe Ser Ser Arg Asn
        115                 120                 125

Thr Ala Phe Glu Gly Leu Cys Phe Met Gln Pro Ala Ser Leu Val Asp
    130                 135                 140

Leu Phe Thr Arg Ser His Gln Val Ile Xaa Ser Ile Leu Gly Arg Trp
145                 150                 155                 160

Arg Lys Gln Thr Asp Thr Val Ser Arg Cys
                165                 170
```

<210> 5670
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5670

```
Tyr Val Leu Ser Ala Phe Arg Gly Leu Ser Arg Val Ile Asp Arg His
  1               5                  10                  15
```

```
Leu Asn Glu Ala Leu Ser Phe Leu Lys Cys Lys Val Gly Glu Thr Gln
            20                  25                  30

Asp Thr Arg Lys Arg Lys Asp Ile Val His Ile Val Val Ala Val Ala
        35                  40                  45

Leu Arg Thr Val Leu Ala Arg Asp Arg Leu Gly Ile Xaa Ile Asn Pro
    50                  55                  60

Gly His Trp Gly Ser Phe Ser Gly Ser Leu Xaa Leu Ser Leu Pro Gly
65                  70                  75                  80

Ser Thr His
```

<210> 5671
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5671

```
Val His Phe Ile Ser Thr Phe Tyr Tyr Ile Tyr Leu Ile Ala Gln Val
  1               5                  10                  15

Leu Leu Ser Arg Lys Lys Trp Asp Val Ala Asn Thr Ala Leu Leu Ala
            20                  25                  30

Cys Arg Gln Cys Cys Pro Val Asn Arg Leu Lys Cys Ile Phe Ile Ser
        35                  40                  45

Trp Tyr Ile Asn Leu Arg Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys
    50                  55                  60

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
65                  70                  75                  80

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
                85                  90                  95

Gly Gly
```

<210> 5672
<211> 199
<212> PRT
<213> Homo sapiens

<400> 5672
Val Phe Leu Thr Tyr Ser Gly Gly Asp Ser Val Met Gln Ile Val Met
1 5 10 15

Phe Asp Arg Gln Ser Ile Phe Ile His Gly Met Lys Ile Ser Leu Gln
20 25 30

Gln Arg Ile Pro Gly Val Ser Ile Gln Gly Ala Ser Gln Ala Asp Glu
35 40 45

Leu Trp Gln Lys Leu Glu Ser Tyr Pro Glu Ala Leu Val Met Leu Asp
50 55 60

Gly Asp Gln Asp Gly Glu Phe Cys Tyr Trp Leu Leu Gln Lys Thr Val
65 70 75 80

Val Gln Phe Pro Glu Val Lys Val Leu Ile Thr Ala Thr Asp Cys Asn
85 90 95

Lys Arg Trp Leu Gln Glu Val Ile His Phe Asn Val Leu Ala Ile Val
100 105 110

Pro Arg Asp Ser Thr Val Glu Thr Phe Ala Leu Ala Val Asn Ser Ala
115 120 125

Ala Met Gly Met Met Phe Leu Pro Gly Asp Trp Arg Thr Thr Pro Glu
130 135 140

Lys Asp Ile Lys Asp Leu Lys Ser Leu Ser Ala Arg Gln Arg Glu Ile
145 150 155 160

Leu Thr Met Leu Ala Ala Gly Glu Ser Asn Lys Glu Ile Gly Arg Ala
165 170 175

Leu Asn Ile Ser Thr Gly Thr Val Lys Ala His Leu Glu Ser Leu Tyr
180 185 190

Arg Arg Leu Glu Val Lys Asn
195

<210> 5673
<211> 192
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5673

```
Ile Met Leu His Ala Glu Ala Pro Ala Pro Ala Arg Phe Pro Ala Phe
  1               5                  10                  15

Ser Met Gly His Gly Gly Ala Phe Gly Glu Gly Leu Cys Gly Phe Pro
             20                  25                  30

Pro Lys Ser Arg Leu Met Pro Leu Ile Pro Ser Gln Glu Val Ala Glu
         35                  40                  45

Gly Leu Gly Ser Val Gln Ala Pro Arg Gly Gly Asp Val Gln Val Lys
     50                  55                  60

Gln Gly Val Cys Arg Arg Arg Gly Ser Leu Pro Trp Ala Gly Cys Gln
 65                  70                  75                  80

His Leu Gly Val Pro Gly Cys Gln Glu Lys Phe Thr His Thr Arg Ala
                 85                  90                  95

Leu Leu Ala Lys Gly Glu Ser Tyr Asp Gly Arg Ala Arg Ala Leu Ser
            100                 105                 110

Arg His Gln Val Cys Ser Gln Ser Ser Arg Ser Ala Pro Val Thr Trp
        115                 120                 125

Asn Arg Pro Ala Phe Arg Gly Leu Ser Phe Leu Ile Cys Leu Met Gly
    130                 135                 140

Ile Ala Ile Pro Thr Phe Pro Val Leu Val Gly Phe Ser Leu Asp Ala
145                 150                 155                 160

Gln Glu Thr Ala Ala Xaa Glu Gly Leu Phe Gly Xaa Leu Phe His Val
                165                 170                 175

Thr Pro Leu Leu Pro Cys Pro His Gly Ala Gly Gly Ala Gly Ala Trp
            180                 185                 190
```

<210> 5674
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5674
Leu Cys Asn Cys Ile Thr Val Thr Asn Glu Ile Leu Ser Leu Leu Leu
1 5 10 15

Ser Ile Cys Pro Lys Lys Pro Pro Pro His Val Leu Ser Gly Glu Leu
20 25 30

Pro Xaa His Phe Trp Xaa Thr Ala Gln Ile Asn Ser
35 40

<210> 5675
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5675
Glu Tyr Ser Ser Leu Ser Pro Arg Ile Asp Ser Ile Thr Gln Ser Asn
1 5 10 15

Ile Asn Leu Asn Gly Leu Ala Pro Ser Phe Phe Ser Lys Asn Asn Gln
20 25 30

Leu Ile Lys Lys Lys Phe Glu Gly Leu Asn Tyr Phe Asn Gly Cys Leu
35 40 45

Lys Tyr Ser Val Gln Phe Val Pro Val Ser Ser Leu Ser Val Trp Gly
50 55 60

Arg Ile Lys Tyr Cys Ala Lys Leu Val Leu Gly Tyr Ile Leu Gln His
65 70 75 80

Leu Val Phe Tyr Leu Thr Asn Arg Ile Leu Val Pro

85 90

<210> 5676
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5676
Ala Arg Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val
1 5 10 15

Thr Cys Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile
20 25 30

Asn Ser Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Xaa Pro
35 40 45

Asp Val Cys
50

<210> 5677
<211> 486
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (203)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (483)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5677
Gln Val Gln Ile Arg Ile Leu Asp Val Asn Asp Asn Ile Pro Val Val

```
1               5                  10                  15

Glu Asn Lys Val Leu Glu Gly Met Val Glu Glu Asn Gln Val Asn Val
            20                  25                  30

Glu Val Thr Arg Ile Lys Val Phe Asp Ala Asp Glu Ile Gly Ser Asp
        35                  40                  45

Asn Trp Leu Ala Asn Phe Thr Phe Ala Ser Gly Asn Glu Gly Gly Tyr
    50                  55                  60

Phe His Ile Glu Thr Asp Ala Gln Thr Asn Glu Gly Ile Val Thr Leu
65                  70                  75                  80

Ile Lys Glu Val Asp Tyr Glu Glu Met Lys Asn Leu Asp Phe Ser Val
                85                  90                  95

Ile Val Ala Asn Lys Ala Ala Phe His Lys Ser Ile Arg Ser Lys Tyr
            100                 105                 110

Lys Pro Thr Pro Ile Pro Ile Lys Val Lys Val Lys Asn Val Lys Glu
        115                 120                 125

Gly Ile His Phe Lys Ser Ser Val Ile Ser Ile Tyr Val Ser Glu Ser
    130                 135                 140

Met Asp Arg Ser Ser Lys Gly Gln Ile Ile Gly Asn Phe Gln Ala Phe
145                 150                 155                 160

Asp Glu Asp Thr Gly Leu Pro Ala His Ala Arg Tyr Val Lys Leu Glu
                165                 170                 175

Asp Arg Asp Asn Trp Ile Ser Val Asp Ser Val Thr Ser Glu Ile Lys
            180                 185                 190

Leu Ala Lys Leu Xaa Asp Phe Glu Ser Arg Xaa Val Gln Asn Gly Thr
        195                 200                 205

Tyr Thr Val Lys Ile Val Ala Ile Ser Glu Asp Tyr Pro Arg Lys Thr
    210                 215                 220

Ile Thr Gly Thr Val Leu Ile Asn Val Glu Asp Ile Asn Asp Asn Cys
225                 230                 235                 240

Pro Thr Leu Ile Glu Pro Val Gln Thr Ile Cys His Asp Ala Glu Tyr
                245                 250                 255

Val Asn Val Thr Ala Glu Asp Leu Asp Gly His Pro Asn Ser Gly Pro
            260                 265                 270

Phe Ser Phe Ser Val Ile Asp Lys Pro Pro Gly Met Ala Glu Lys Trp
```

```
        275                 280                 285

Lys Ile Ala Arg Gln Glu Ser Thr Ser Val Leu Leu Gln Gln Ser Glu
    290                 295                 300

Lys Lys Leu Gly Arg Ser Glu Ile Gln Phe Leu Ile Ser Asp Asn Gln
305                 310                 315                 320

Gly Phe Ser Cys Pro Glu Lys Gln Val Leu Thr Leu Thr Val Cys Glu
                325                 330                 335

Cys Leu His Gly Ser Gly Cys Arg Glu Ala Gln His Asp Ser Tyr Val
            340                 345                 350

Gly Leu Gly Pro Ala Ala Ile Ala Leu Met Ile Leu Ala Phe Leu Leu
        355                 360                 365

Leu Leu Leu Val Pro Leu Leu Leu Leu Met Cys His Cys Gly Lys Gly
    370                 375                 380

Ala Lys Gly Phe Thr Pro Ile Pro Gly Thr Ile Glu Met Leu His Pro
385                 390                 395                 400

Trp Asn Asn Glu Gly Ala Pro Pro Glu Asp Lys Val Val Pro Ser Phe
                405                 410                 415

Leu Pro Val Asp Gln Gly Gly Ser Leu Val Gly Arg Asn Gly Val Gly
            420                 425                 430

Gly Met Ala Lys Glu Ala Thr Met Lys Gly Ser Ser Ser Ala Ser Ile
        435                 440                 445

Val Lys Gly Gln His Glu Met Ser Glu Met Asp Gly Arg Trp Glu Glu
    450                 455                 460

His Arg Ser Leu Leu Ser Gly Arg Ala Thr Gln Phe Thr Gly Ala Thr
465                 470                 475                 480

Gly Ala Xaa His Asp His
                485
```

<210> 5678
<211> 311
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5678

```
Ala Ile Val Pro Ser Trp Asp Leu Asp Lys Asp Thr Ile Ser Leu Leu
  1               5                  10                  15

Ser Pro Val Leu Cys Ile Phe Pro Ser Pro Ser Ser Gln Thr Ser Leu
             20                  25                  30

Leu Tyr Val Phe Ser Leu Ala Gly Arg Met Thr Gln Asn Thr Val Ile
         35                  40                  45

Val Asn Gly Val Ala Met Ala Ser Arg Pro Ser Gln Pro Thr His Val
     50                  55                  60

Asn Val His Ile His Gln Glu Ser Ala Leu Thr Gln Leu Leu Lys Ala
 65                  70                  75                  80

Gly Gly Ser Leu Lys Lys Phe Leu Phe His Pro Gly Asp Thr Val Pro
                 85                  90                  95

Ser Thr Ala Arg Ile Gly Tyr Glu Gln Leu Ala Leu Gly Val Thr Gln
            100                 105                 110

Ile Leu Leu Gly Val Val Ser Cys Val Leu Gly Val Cys Leu Ser Leu
        115                 120                 125

Gly Pro Trp Thr Val Leu Xaa Ala Ser Gly Cys Ala Phe Trp Ala Gly
    130                 135                 140

Ser Val Val Ile Ala Ala Gly Ala Gly Ala Ile Val His Glu Lys His
145                 150                 155                 160

Pro Gly Lys Leu Ala Gly Tyr Ile Ser Ser Leu Leu Thr Leu Xaa Gly
                165                 170                 175

Phe Ala Thr Ala Met Ala Ala Val Val Leu Cys Val Asn Ser Phe Ile
            180                 185                 190

Trp Gln Thr Glu Pro Phe Leu Tyr Ile Asp Thr Val Cys Asp Arg Ser
        195                 200                 205

Asp Pro Val Phe Pro Thr Thr Gly Tyr Arg Trp Met Arg Arg Ser Gln
    210                 215                 220

Glu Asn Gln Trp Gln Lys Glu Glu Cys Arg Ala Tyr Met Gln Met Leu
```

```
225                 230                 235                 240

Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu Ala Val Cys Val
                245                 250                 255

Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val Gly Leu Arg Asn
            260                 265                 270

Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu Gly Ser Glu Lys
        275                 280                 285

Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro Ser Arg Glu Gln
    290                 295                 300

Thr Ser Thr Ala Ile Val Leu
305                 310
```

<210> 5679
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5679

```
Ala Gln Trp Leu Pro Leu Glu Glu Arg Gly Ala Glu Thr Glu Thr Lys
  1               5                  10                  15

Val Gln Glu Arg Glu Asn Gly Glu Ser Pro Leu Glu Leu Glu Gln Leu
             20                  25                  30

Asp Gln His His Glu Met Lys Glu Thr Asn Glu Gln Lys Leu His Lys
         35                  40                  45

Ile Ala Asn Glu Leu Leu Leu Thr Glu Arg Ala Tyr Val Asn Arg Leu
     50                  55                  60

Asp Leu Leu Asp Gln Val Phe Tyr Cys Lys Leu Leu Glu Glu Ala Asn
 65                  70                  75                  80

Arg Gly Ser Phe Xaa Ala Glu Met Val Ile Lys Ser Phe Leu Ile Phe
                 85                  90                  95

His Gln
```

<210> 5680
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5680
Ala Arg Lys Glu Ile Gln Tyr Cys Phe Trp Thr Leu Ile Lys Ser Cys
1 5 10 15

Ala Ile Asp Thr Tyr Met Ser His Leu Ala Val Leu Arg Arg Ala Ile
20 25 30

Ile Thr Leu Gln Leu Thr Leu Glu Asn Ile Leu Ala Phe Glu His Phe
35 40 45

Ser Asn Asn Gln Val Asp Ser Arg Gly Ser
50 55

<210> 5681
<211> 54
<212> PRT
<213> Homo sapiens

<400> 5681
Ser Leu Thr Ser Lys Pro Glu Thr Ser Glu Ile Leu Lys Ala Asn Leu
1 5 10 15

Phe Ser Leu Leu Cys Ile Lys Phe Ile Tyr Leu Lys Cys Tyr Cys Ser
20 25 30

Trp Leu Arg Ile Ile Leu Cys Lys Phe Ser Phe Phe Val Val Cys Leu
35 40 45

Phe Ala Cys Cys Ser Pro
50

<210> 5682
<211> 486
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (326)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (400)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (406)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5682
Ser Ser Thr Ala Val Thr Xaa Ala Leu Glu Leu Val Asp Pro Pro Gly
1 5 10 15

Cys Arg Asn Ser Ala Arg Gly Tyr Ile Gln Tyr Gly Asn Glu Glu Gln
20 25 30

Arg Lys Gln Ala Phe Glu Glu Leu Arg Asp Asp Leu Val Glu Leu Ser
35 40 45

Lys Ala Lys Tyr Ser Arg Asn Ile Val Lys Lys Phe Leu Met Tyr Gly
50 55 60

Ser Lys Pro Gln Ile Ala Glu Ile Ile Arg Ser Phe Lys Gly His Val
65 70 75 80

Arg Lys Met Leu Arg His Ala Glu Ala Ser Ala Ile Val Glu Tyr Ala
85 90 95

Tyr Asn Asp Lys Ala Ile Leu Glu Gln Arg Asn Met Leu Thr Glu Glu
100 105 110

Leu Tyr Gly Asn Thr Phe Gln Leu Tyr Lys Ser Ala Asp His Arg Thr
115 120 125

Leu Asp Lys Val Leu Glu Val Gln Pro Glu Lys Leu Glu Leu Ile Met
130 135 140

Asp Glu Met Lys Gln Ile Leu Thr Pro Met Ala Gln Lys Glu Ala Val
145 150 155 160

Ile Lys His Ser Leu Val His Lys Val Phe Leu Asp Phe Phe Thr Tyr
165 170 175

Ala Pro Pro Lys Leu Arg Ser Glu Met Ile Glu Ala Ile Arg Glu Ala

```
            180                 185                 190

Val Val Tyr Leu Ala His Thr His Asp Gly Ala Arg Val Ala Met His
        195                 200                 205

Cys Leu Trp His Gly Thr Pro Lys Asp Arg Lys Val Ile Val Lys Thr
    210                 215                 220

Met Lys Thr Tyr Val Glu Lys Val Ala Asn Gly Gln Tyr Ser His Leu
225                 230                 235                 240

Val Leu Leu Ala Ala Phe Asp Cys Ile Asp Asp Thr Lys Leu Val Lys
                245                 250                 255

Gln Ile Ile Ile Ser Glu Ile Ile Ser Ser Leu Pro Ser Ile Val Asn
            260                 265                 270

Asp Lys Tyr Gly Arg Lys Val Leu Leu Tyr Leu Leu Ser Pro Arg Asp
        275                 280                 285

Pro Ala His Thr Val Arg Glu Ile Ile Glu Val Leu Gln Lys Gly Asp
    290                 295                 300

Gly Asn Ala His Ser Lys Lys Asp Thr Glu Val Arg Arg Arg Glu Leu
305                 310                 315                 320

Leu Glu Ser Ile Ser Xaa Ala Leu Leu Ser Tyr Leu Gln Glu His Ala
                325                 330                 335

Gln Glu Val Val Leu Asp Lys Ser Ala Cys Val Leu Val Ser Asp Ile
            340                 345                 350

Leu Gly Ser Ala Thr Gly Asp Val Gln Pro Thr Met Asn Ala Ile Ala
        355                 360                 365

Ser Leu Ala Ala Thr Gly Leu His Pro Gly Gly Lys Asp Gly Glu Leu
    370                 375                 380

His Ile Ala Glu His Pro Ala Gly His Leu Val Leu Lys Trp Leu Xaa
385                 390                 395                 400

Glu Gln Asp Lys Lys Xaa Lys Glu Asn Gly Arg Glu Gly Cys Phe Ala
                405                 410                 415

Lys Thr Leu Val Glu His Val Gly Met Lys Asn Leu Lys Ser Trp Ala
            420                 425                 430

Ser Val Asn Arg Gly Ala Ile Ile Leu Ser Ser Leu Leu Gln Ser Cys
        435                 440                 445

Asp Leu Glu Val Ala Asn Lys Val Lys Ala Ala Leu Lys Ser Leu Ile
```

```
Leu Thr Ser Gln Asp Leu Xaa Tyr Asp Leu Asp Ile Asn Ile Phe Asp
         35                  40                  45

Glu Ile Asn Leu Met Ser Leu Ala Thr Glu Asp Asn Phe Asp Pro Ile
     50                  55                  60

Asp Val Ser Gln Leu Phe Asp Glu Pro Asp Ser Asp Ser Gly Leu Ser
 65                  70                  75                  80

Leu Asp Ser Ser His Asn Asn Thr Ser Val Ile Lys Ser Asn Ser Ser
                 85                  90                  95

His Ser Val Cys Asp Glu Gly Ala Ile Gly Tyr Cys Thr Asp His Glu
            100                 105                 110

Ser Ser Ser His His Asp Leu Glu Gly Ala Val Gly Gly Tyr Tyr Pro
        115                 120                 125

Glu Pro Ser Lys Leu Cys His Leu Asp Gln Ser Asp Ser Asp Phe His
    130                 135                 140

Gly Asp Leu Thr Phe Gln His Val Phe His Asn His Thr Tyr His Leu
145                 150                 155                 160

Gln Pro Thr Ala Pro Glu Ser Thr Ser Glu Pro Phe Pro Trp Pro Gly
                165                 170                 175

Lys Ser Gln Lys Ile Arg Ser Arg Tyr Leu Glu Asp Thr Asp Arg Asn
            180                 185                 190

Leu Ser Arg Asp Glu Gln Arg Ala Lys Ala Leu His Ile Pro Phe Ser
        195                 200                 205

Val Asp Glu Ile Val Gly Met Pro Val Asp Ser Phe Asn Ser Met Leu
    210                 215                 220

Ser Arg Tyr Tyr Leu Thr Asp Leu Gln Val Ser Leu Ile Arg Asp Ile
225                 230                 235                 240

Arg Arg Arg Gly Lys Asn Lys Val Ala Ala Xaa Asn Cys Arg Lys Xaa
                245                 250                 255

Xaa Leu Asp Ile Ile Leu Asn Leu Glu Asp Asp Gly Met Val Thr Trp
            260                 265                 270

Pro Ala Lys Lys Gly Asn Pro
        275
```

<210> 5685

<210> 5686
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5686
Glu Ile Lys Phe Cys Phe Tyr Leu Gly Thr Arg Ala Leu Gln Asp Leu
1 5 10 15

Ile Pro Ala Tyr Leu Ser Ser Leu Asp Ser Leu Tyr Ser Ser Ile Trp
20 25 30

Lys Cys Gly Pro Trp Thr Glu Ala Leu Pro Asn Asn Ala Glu His Leu
35 40 45

Val Leu Pro Phe Ala Arg Met Val Leu Met Val Pro Lys Ile Thr Ala
50 55 60

Ser Xaa Pro Lys Phe Arg Thr Gln Ile Thr Leu Trp Arg Arg Pro Gln
65 70 75 80

Pro Leu Ala Xaa Ala Phe Lys Ala Leu Arg Asp Leu Asp Thr Arg Leu
85 90 95

Ala Leu Ile Tyr Ile Tyr Phe Lys Ser Ile Ser Ser Leu Ser His Ala
100 105 110

His

<210> 5687
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5687
Leu Asp Ile Lys Thr Ser Tyr Ser Leu Asn Pro Lys Ala Lys Leu Met
1 5 10 15

```
Ser Arg Ala Asn Gln Ser Ser Trp Gly Gln Asn Arg Thr Lys Thr Tyr
            20                  25                  30

Leu Met Gln Gly Ile Glu Ala Arg Pro Lys Thr Gly Gln Pro Asn Arg
        35                  40                  45

Met Gly His Leu Pro Pro Leu Met Pro Ala Cys Pro Ser Val Ile Ile
    50                  55                  60

Asn Ser Ala Pro Phe His Ser Pro Lys Ser Pro Val Gln Thr
65                  70                  75
```

<210> 5688
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5688

```
Leu Ser Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Ser Thr Ala Val Ala
  1               5                  10                  15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
            20                  25                  30

Ala Ser Asn Leu Tyr Phe Tyr Leu Leu Cys Ile
        35                  40
```

<210> 5689
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5689

```
Thr Thr Tyr Cys Phe Pro Leu Phe Gln Gly Asp Ala Val Asp Tyr Gln
  1               5                  10                  15
```

```
Lys Gln Leu Lys Gln Met Ile Lys Asp Leu Ala Lys Glu Lys Asp Lys
            20                  25                  30

Thr Glu Lys Glu Leu Pro Lys Met Ser Gln Val Trp Thr Phe Phe Ser
        35                  40                  45

Ala Glu Asn
    50
```

<210> 5690
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5690

```
Glu Ala Leu Val Asp Phe Leu Tyr Trp Tyr Phe Arg Ser Leu Leu Ser
 1               5                  10                  15

Phe Leu Thr Glu Val Gly Ala Asn Glu Leu Ser Ile Leu Ser Thr Trp
            20                  25                  30

Leu Ile Lys
        35
```

<210> 5691
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5691

```
Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr Thr Ala Leu Glu Leu
 1               5                  10                  15

Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Tyr Lys Leu Ser
            20                  25                  30
```

<210> 5692
<211> 74
<212> PRT
<213> Homo sapiens

<400> 5692

```
Gly Thr Leu Leu Lys Phe Leu Cys Lys Leu Gly Leu Phe Phe Ser Leu
  1               5                  10                  15

Ser Cys Val Ser Arg Thr Val Gly Val Pro Gly Leu Leu Ser Cys Trp
             20                  25                  30

Val Gln Ala Ser Arg Ile Leu Arg Arg Cys Glu Glu Glu Val Arg Lys
         35                  40                  45

Ile Gly Gly Asn Arg Lys Glu Lys Glu Ile Trp Pro Arg Phe Trp Gly
     50                  55                  60

Glu Lys Val Trp Gly Lys Ser Lys Gly Asn
 65                  70
```

<210> 5693
<211> 50
<212> PRT
<213> Homo sapiens

<400> 5693

```
Glu Asn Ala Cys Lys Ala Leu Gly Ile Val His Asp Val Asn Thr Gln
  1               5                  10                  15

Met Leu Leu Lys Ser Ile Asn Val Asn Tyr Phe Leu Ala His Phe Ser
             20                  25                  30

Gly Leu Ile Ser Pro Val Lys Met Ile His Ser Ile Leu Phe Asn Gly
         35                  40                  45

Phe Met
     50
```

<210> 5694
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5694
Gly Leu Gly Cys Ala Leu Ala Gln Val Leu Cys Gly Asp Ala Arg Gln
1 5 10 15

His Ile Leu Leu Arg Asp Asp Thr Leu Ser Gly Gln His Arg Pro Val
20 25 30

Thr Ile Xaa Ser Leu Ala Thr Ser Leu Ser Pro Ala Ser Pro Ser Leu
35 40 45

Asp Thr Arg Pro Gln Thr Pro Gly Ser Gly Arg Gly Gly Trp Thr Ser
50 55 60

Leu His Thr Pro Ala Gly Arg Gly Gln Val Pro Arg Ser Pro Met Trp
65 70 75 80

Arg Ala Gly Pro Gly Ala Ala Gln Ala Gly Gly Xaa Asn Trp Gly Leu
85 90 95

Arg Val Leu Arg Arg Arg Val Lys Ile Ile Lys Gly Ala Thr Glu Ser
100 105 110

Lys Arg Arg Glu Gly Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro
115 120 125

Leu Val Leu Glu Arg Xaa Pro Pro Arg Trp Ser Xaa Ser Phe Val Pro
130 135 140

Leu Val Arg
145

<210> 5695
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5695
Val Phe Ser Gly Met His Arg Phe Ile Ile Phe Ser Thr Leu Lys Met

```
  1               5                  10                  15

Arg Ala Phe Lys Ser Val His Tyr Leu Tyr Ser Pro Val Leu Ser Ile
             20                  25                  30

Val Tyr Ile Ile Tyr Met Ile Lys Glu Asn Met His Asn Gln Thr Ser
        35                  40                  45

Leu Asn Ile Val Phe Ala Pro Asp Glu Gln
     50                  55
```

<210> 5696
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5696

```
Thr Arg Cys Lys Arg Phe Val Asn Ser Leu Ala Pro Lys Leu Ser His
  1               5                  10                  15

Trp Arg Arg Asp Phe Xaa His Tyr Ala Glu Ser Gly Trp Val Glu Phe
             20                  25                  30

Arg Thr Ala Thr Leu Val Ala Glu Glu Leu His Gln Leu Gly Tyr Ser
         35                  40                  45

Leu Ala Leu Gly Arg Glu
     50
```

<210> 5697
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5697

```
Gln Gln Phe Gly Arg Asp Gly Ser Pro Ala Ala Tyr Val Gly Gly Pro
  1               5                  10                  15

Ser Val Gly Leu Arg Val Arg Val Ala Met Ala Val Asp Ile Thr Leu
             20                  25                  30

Leu Phe Arg Ala Ser Val Lys Thr Val Lys Thr Arg Asn Lys Arg Trp
```

35 40 45

Glu Trp Arg Trp Ala Thr Gly Ser Met
50 55

<210> 5698
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5698
Gln Lys Ser Pro Ser Val Glu Asp Gly Leu Lys Gly Arg Asp Gln Thr
1 5 10 15

Xaa Met Asp Thr Asn Pro Lys Thr Glu Asp Ala Pro Cys Leu Pro His
20 25 30

Glu Ala Tyr Leu Ser Ala Cys Val Ser Met Ile Ala Gly Ile Glu Leu
35 40 45

Leu Gly Thr Ser Arg Met Ile Tyr Leu Ala Ile Cys Phe Leu His Ser
50 55 60

Lys Asn Gln Asn Gly Pro Val Ile Pro Asn Arg Glu Asn Arg Ala Asn
65 70 75 80

Ser Leu Phe Ser Pro Leu Pro Ser Glu Ala Ser Phe
85 90

<210> 5699
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5699
Gly Arg Gly Trp Gly Trp Glu Gly Thr Val Leu Pro Gly Glu Ala Glu
1 5 10 15

```
Glu Asp Arg Val Gly Leu Arg Ala Arg Arg Arg Pro Ser Arg Leu Leu
            20                  25                  30

Ala Pro Leu Ala Trp Cys Pro Ala Pro Gly Arg Glu Ala Ala Gly Leu
        35                  40                  45

Asp Arg Ala Gly Leu Pro Gly Gly Ala Arg Ala Leu Ala Ala Gly Arg
    50                  55                  60

Pro Leu Leu Ser Ala Met Ala Gly Leu His Pro Trp Val Ile Phe Ser
65                  70                  75                  80

Gly Pro Leu Trp Pro Leu Leu Thr Pro Arg Glu Gln Thr Thr Arg Thr
                85                  90                  95

Thr Gln Glu Gln Ile Lys Ser Arg Pro Gln Pro Xaa Arg Glu Arg Ala
            100                 105                 110

Ser Ile Leu Phe Ala Pro Arg Val Ala Val
        115                 120
```

<210> 5700
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5700

```
Ala Glu Leu Thr Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Thr Leu
  1             5                  10                  15

Thr Pro Ser Ser Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr
            20                  25                  30

Pro Ala Lys Ala Glu Xaa Ser Xaa His Pro Asn Ser Asp Phe Phe Gly
        35                  40                  45

Gln Glu Gly Glu Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His
    50                  55                  60
```

```
Gly Ser Gln Lys Glu Arg Asn Leu Ile Thr Val Thr Gly Ser Ser Phe
 65                  70                  75                  80

Leu Val
```

<210> 5701
<211> 316
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5701

```
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Thr Gly Xaa Asn Asn
  1               5                  10                  15

Thr Lys Ala Phe Glu Val Pro Ala Xaa Ala Asn Phe Leu Asn Ser Asn
             20                  25                  30

Asp Val Phe Val Leu Lys Thr Gln Ser Cys Cys Tyr Leu Trp Cys Gly
         35                  40                  45

Lys Gly Cys Ser Gly Asp Glu Arg Glu Met Ala Lys Met Val Ala Asp
     50                  55                  60

Thr Ile Ser Arg Thr Glu Lys Gln Val Val Val Glu Gly Gln Glu Pro
 65                  70                  75                  80

Ala Asn Phe Trp Met Ala Leu Gly Gly Lys Ala Pro Tyr Ala Asn Thr
                 85                  90                  95

Lys Arg Leu Gln Glu Glu Asn Leu Val Ile Thr Pro Arg Leu Phe Glu
            100                 105                 110

Cys Ser Asn Lys Thr Gly Arg Phe Leu Ala Thr Glu Ile Pro Asp Phe
        115                 120                 125

Asn Gln Asp Asp Leu Glu Glu Asp Asp Val Phe Leu Leu Asp Val Trp
    130                 135                 140
```

```
Asp Gln Val Phe Phe Trp Ile Gly Lys His Ala Asn Glu Glu Glu Lys
145                 150                 155                 160

Lys Ala Ala Ala Thr Thr Ala Gln Glu Tyr Leu Lys Thr His Pro Ser
                165                 170                 175

Gly Arg Asp Pro Glu Thr Pro Ile Ile Val Val Lys Gln Gly His Glu
            180                 185                 190

Pro Pro Thr Phe Thr Gly Trp Phe Leu Ala Trp Asp Pro Phe Lys Trp
        195                 200                 205

Ser Asn Thr Lys Ser Tyr Glu Asp Leu Lys Ala Glu Leu Gly Asn Ser
    210                 215                 220

Arg Asp Trp Ser Gln Ile Thr Ala Glu Val Thr Ser Pro Lys Val Asp
225                 230                 235                 240

Val Phe Asn Ala Asn Ser Asn Leu Ser Ser Gly Pro Leu Pro Ile Phe
                245                 250                 255

Pro Leu Glu Gln Leu Val Asn Lys Pro Val Glu Glu Leu Pro Glu Gly
            260                 265                 270

Val Asp Pro Ser Arg Lys Glu Glu His Leu Ser Ile Glu Asp Phe Thr
        275                 280                 285

Gln Ala Phe Gly Met Thr Pro Ala Ala Phe Ser Ala Leu Pro Arg Trp
    290                 295                 300

Lys Gln Gln Asn Leu Lys Lys Glu Lys Gly Leu Phe
305                 310                 315
```

<210> 5702
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5702
Gly Lys Lys Glu Glu Asn Asn Pro Val Ser Leu Glu Val Gly Val Trp
1 5 10 15

Val Gly Thr Gly Asp Pro Gly Val Val Met Met Lys Thr Arg Ala Gly
20 25 30

Phe Gly Gly Arg Leu Arg Leu Phe Arg Ser Leu Leu Ser Pro Pro Pro
35 40 45

Ser Arg Ser Leu Pro Pro Pro Pro His Xaa Ser Ala Gly Lys Ala Ala
50 55 60

Cys Ala Ala Pro Gly Gly Glu Met Val Asp Ala His Glu Leu Cys Met
65 70 75 80

Trp Phe Leu Xaa Xaa Leu Ser Val Leu Gly Pro Val Phe Gly Gly Thr
85 90 95

Pro Lys Gly

<210> 5703
<211> 292
<212> PRT
<213> Homo sapiens

<400> 5703
Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Leu Gln Leu Leu Ser Arg
1 5 10 15

Leu Cys Gly Asp His Leu Gln Ala Ile Pro Ala Lys Lys Ala Pro Ala
20 25 30

Gly Gln Glu Glu Pro Gly Thr Pro Pro Ser Ser Pro Leu Ser Ala Glu
35 40 45

Gln Leu Asp Arg Ile Gln Arg Asn Lys Ala Ala Ala Leu Leu Arg Leu
50 55 60

Ala Ala Arg Asn Val Pro Val Gly Phe Gly Glu Ser Trp Lys Lys His
65 70 75 80

Leu Ser Gly Glu Phe Gly Lys Pro Tyr Phe Ile Lys Leu Met Gly Phe

```
                85                  90                  95

Val Ala Glu Glu Arg Lys His Tyr Thr Val Tyr Pro Pro Pro His Gln
            100                 105                 110

Val Phe Thr Trp Thr Gln Met Cys Asp Ile Lys Asp Val Lys Val Val
        115                 120                 125

Ile Leu Gly Gln Asp Pro Tyr His Gly Pro Asn Gln Ala His Gly Leu
    130                 135                 140

Cys Phe Ser Val Gln Arg Pro Val Pro Pro Pro Pro Ser Leu Glu Asn
145                 150                 155                 160

Ile Tyr Lys Glu Leu Ser Thr Asp Ile Glu Asp Phe Val His Pro Gly
                165                 170                 175

His Gly Asp Leu Ser Gly Trp Ala Lys Gln Gly Val Leu Leu Leu Asn
            180                 185                 190

Ala Val Leu Thr Val Arg Ala His Gln Ala Asn Ser His Lys Glu Arg
        195                 200                 205

Gly Trp Glu Gln Phe Thr Asp Ala Val Val Ser Trp Leu Asn Gln Asn
    210                 215                 220

Ser Asn Gly Leu Val Phe Leu Leu Trp Gly Ser Tyr Ala Gln Lys Lys
225                 230                 235                 240

Gly Ser Ala Ile Asp Arg Lys Arg His His Val Leu Gln Thr Ala His
                245                 250                 255

Pro Ser Pro Leu Ser Val Tyr Arg Gly Phe Phe Gly Cys Arg His Phe
            260                 265                 270

Ser Lys Thr Asn Glu Leu Leu Gln Lys Ser Gly Lys Lys Pro Ile Asp
        275                 280                 285

Trp Lys Glu Leu
    290
```

<210> 5704
<211> 103
<212> PRT
<213> Homo sapiens

<400> 5704

```
Phe Leu Arg Cys Val Asp Leu Asp Gly Arg Cys Asp Met Leu Val Phe
  1               5                  10                  15
```

```
            20                  25                  30

Pro Glu Tyr Asp Gly Arg Gly Val Leu Ile Ala Val Leu Asp Thr Gly
         35                  40                  45

Val Asp Pro Gly Ala Pro Gly Met Gln Val Thr Thr Asp Gly Lys Pro
     50                  55                  60

Lys Ile Val Asp Ile Ile Asp Thr Thr Gly Ser Gly Asp Val Asn Thr
 65                  70                  75                  80

Ala Thr Glu Val Glu Pro Lys Asp Gly Glu Ile Val Gly Leu Ser Gly
                 85                  90                  95

Arg Val Leu Lys Ile Pro Ala Ser Trp Thr Asn Pro Ser Gly Lys Tyr
            100                 105                 110

His Ile Gly Ile Lys Asn Gly Tyr Asp Phe Tyr Pro Lys Ala Leu Lys
        115                 120                 125

Glu Arg Xaa Gln Lys Glu Arg Lys Glu Lys Ile Trp Asp Pro Val His
    130                 135                 140

Arg Xaa Ala Leu Ala Glu Ala Cys Arg Xaa Gln Glu Xaa Phe Asp Val
145                 150                 155                 160

Ala Asn Asn Gly Ser Ser Gln Ala Asn Lys Leu Ile Lys
                165                 170
```

<210> 5706
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5706

```
Thr Leu Val Ala Glu Ala Thr Met Asp Leu Leu Leu Gly Asp Ser Trp
  1               5                  10                  15

Gly Ser Pro Arg Pro Pro Arg Ala Glu Arg Gly Asp Glu Glu Phe Gly
             20                  25                  30

Thr Val Gly Glu Glu Met Gly Arg Asp Gly Ile Ser Gly Ser Gln Ser
         35                  40                  45

Gly Trp Asp Thr His Ala Gln Leu Leu His Trp Trp Gly Val Gly His
     50                  55                  60

Thr Leu Phe Leu Thr Gly His Asp Leu Gln Glu Glu Lys
 65                  70                  75
```

<210> 5707
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5707
Ile Gln His Leu Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val
1 5 10 15

Trp Asn Ser Leu Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg
20 25 30

Phe Ser Leu Cys Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp
35 40 45

Val Arg Thr Ser Ile
50

<210> 5708
<211> 64
<212> PRT
<213> Homo sapiens

<400> 5708
Gln Pro Gln Cys Pro Ala Ser Leu Thr Ser Ser Phe Leu Cys Pro Leu
1 5 10 15

Cys Gly Ser Leu Leu Leu Val Ser Ala Phe Ser Met Leu Arg Thr Lys
20 25 30

Ser Pro Ile His Cys Leu Cys Ser Arg Lys Leu Gln Lys Asn Lys Glu
35 40 45

Pro Asn Tyr Gln Asn His Ile Lys Ser Pro Leu Phe Cys Leu Gly Ile
50 55 60

<210> 5709
<211> 39
<212> PRT
<213> Homo sapiens

<400> 5709
Ala Ala Phe Phe Leu Leu Arg Leu Ser Leu Phe Val Leu Leu Pro Lys
1 5 10 15

Arg Gln Leu Pro Glu Phe Gly Cys Leu Asn Tyr Asn Leu Cys Arg Asn
20 25 30

Ser Ser Val Asn Thr Phe Lys
35

<210> 5710
<211> 112
<212> PRT
<213> Homo sapiens

<400> 5710
Gln Leu Gln Leu Phe Cys Leu Gly Phe Gln Leu Phe Leu Val Arg Val
1 5 10 15

Cys Ser Leu Met Ile Trp Ile Tyr Phe Ala Phe Ile Phe Gln Arg Leu
20 25 30

His Leu Ile Pro Gly Lys Ser Ser Ala Arg Gln Val Ser Gly Phe Ser
35 40 45

Leu Leu Ser Phe Asn Pro Ser Asn Thr Ile Phe Val Lys Leu Asp Trp
50 55 60

Trp Cys Phe Ile Gln Leu Ile Tyr Ser Ala Tyr Leu Phe Glu Lys Arg
65 70 75 80

Leu Leu Glu Ile Asp Asp Val Phe Val Pro Val Ile Leu Lys Val Val
85 90 95

Gly Ala Arg Ile Glu Phe His Ser Gly Ile Gly Phe Gly Ser Gly Leu
100 105 110

<210> 5711
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5711
Trp Val Met Glu Tyr Asn Leu Glu Lys Lys Arg Asn Lys Arg Asp Cys

```
  1               5                  10                  15

Val Ser Pro Cys Cys Pro Gly Trp Ser Arg Thr Ser Glu Leu Lys Gln
             20                  25                  30

Ser Thr Leu Leu Ser Leu Gln Lys Cys Trp Asp Tyr Arg His Glu Thr
         35                  40                  45

Pro Ser Pro Ala Ile Arg Phe Leu Phe Tyr Ile Tyr Met Lys
     50                  55                  60



<210> 5712
<211> 194
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (173)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5712
Pro Met Arg Arg Pro Arg Gly Glu Pro Gly Pro Arg Ala Pro Arg Pro
  1               5                  10                  15

Thr Glu Gly Ala Thr Cys Ala Gly Pro Gly Glu Ser Trp Ser Pro Ser
             20                  25                  30

Pro Asn Ser Met Leu Arg Val Leu Leu Ser Ala Gln Thr Ser Pro Ala
         35                  40                  45

Arg Leu Ser Gly Leu Leu Leu Ile Pro Pro Val Gln Pro Cys Cys Leu
     50                  55                  60
```

```
Gly Pro Ser Lys Trp Gly Asp Arg Pro Val Gly Gly Gly Pro Ser Ala
 65                  70                  75                  80

Gly Pro Val Gln Gly Leu Gln Arg Leu Leu Glu Gln Ala Lys Ser Pro
                 85                  90                  95

Gly Glu Leu Leu Xaa Trp Leu Gly Gln Asn Pro Ser Lys Val Arg Ala
            100                 105                 110

Xaa His Tyr Ser Val Ala Leu Arg Arg Leu Gly Gln Leu Leu Gly Ser
        115                 120                 125

Arg Pro Arg Pro Pro Pro Val Glu Gln Val Thr Leu Gln Asp Leu Ser
    130                 135                 140

Gln Leu Ile Ile Arg Asn Cys Pro Ser Phe Asp Ile His Thr Ile His
145                 150                 155                 160

Val Cys Leu His Leu Ala Val Leu Leu Gly Phe Pro Xaa Asp Gly Pro
                165                 170                 175

Leu Val Cys Ala Leu Glu Gln Glu Pro Lys Leu Arg Leu Leu Arg Xaa
            180                 185                 190

His Leu
```

<210> 5713
<211> 275
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5713
Arg Trp Ala Thr Tyr Gly Arg Thr Gly Gly Leu Pro Asn Val Gly Lys

```
1               5                  10                  15

Ser Ser Thr Ile Asn Xaa Ile Met Gly Asn Lys Lys Val Ser Val Ser
            20                  25                  30

Ala Thr Pro Gly His Thr Lys His Phe Gln Thr Leu Tyr Val Xaa Pro
        35                  40                  45

Gly Leu Cys Leu Cys Asp Cys Pro Gly Leu Val Met Pro Ser Phe Val
    50                  55                  60

Ser Thr Lys Ala Glu Met Thr Cys Ser Gly Ile Leu Pro Ile Asp Gln
65                  70                  75                  80

Met Arg Asp His Val Pro Pro Val Ser Leu Val Cys Gln Asn Ile Pro
                85                  90                  95

Arg His Val Leu Xaa Ala Thr Tyr Gly Ile Asn Ile Ile Thr Pro Arg
            100                 105                 110

Glu Asp Glu Asp Pro His Arg Pro Pro Thr Ser Glu Glu Leu Leu Thr
        115                 120                 125

Ala Tyr Gly Tyr Met Arg Gly Phe Met Thr Ala His Gly Gln Pro Asp
    130                 135                 140

Gln Pro Arg Ser Ala Arg Tyr Ile Leu Lys Asp Tyr Val Ser Gly Lys
145                 150                 155                 160

Leu Leu Tyr Cys His Pro Pro Pro Gly Arg Asp Pro Val Thr Phe Gln
                165                 170                 175

His Gln His Gln Arg Leu Leu Glu Asn Lys Met Asn Ser Asp Glu Ile
            180                 185                 190

Lys Met Gln Leu Gly Arg Asn Lys Lys Ala Lys Gln Ile Glu Asn Ile
        195                 200                 205

Val Asp Lys Thr Phe Phe His Gln Glu Asn Val Arg Ala Leu Thr Lys
    210                 215                 220

Gly Val Gln Ala Val Met Gly Tyr Lys Pro Gly Ser Gly Val Val Thr
225                 230                 235                 240

Ala Ser Thr Ala Ser Ser Glu Asn Gly Ala Gly Lys Pro Trp Lys Lys
                245                 250                 255

His Gly Asn Arg Asn Lys Lys Glu Lys Ser Arg Arg Leu Tyr Lys His
            260                 265                 270

Leu Asp Met
```

275

<210> 5714
<211> 94
<212> PRT
<213> Homo sapiens

<400> 5714
His Glu Leu Glu His Thr Leu Val Met Ala Gly Pro Asn Ser Lys Arg
1 5 10 15

Gln Thr Gln Gly Val His Val Pro Arg Met Leu Gln Pro Ala Leu Gly
20 25 30

Pro Arg Val Ser His Glu Asp Trp Pro Pro Leu Cys Thr Gly Ala Arg
35 40 45

Gly Gly Gln Val Pro Val Leu Ala Arg Leu Leu Ala Ala Val Pro Thr
50 55 60

Glu Thr Thr Ala Leu Leu Cys Phe Pro Arg Arg Gly Ala Trp Leu Leu
65 70 75 80

Ala Val Arg Ala Gly Leu Phe Gln Lys Val Gly Pro Cys Pro
85 90

<210> 5715
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5715
Gly Gln Val Ala Ala Leu Ser Pro Arg Val Val Pro Gly Arg Leu Arg
1 5 10 15

Ser Ser Pro Lys Arg Gly Cys Ser Ser Gly Lys Gln Val Asn Ser Trp
20 25 30

Tyr Phe Thr Phe Leu Gly Asn Thr Xaa Asn Glu Asp Leu Gln Leu
35 40 45

<210> 5716
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5716
Pro Lys Thr Val Ser Lys Met His Ile Lys Ser Ile Ile Leu Glu Gly
1 5 10 15

Phe Lys Ser Tyr Ala Gln Arg Thr Glu Val Asn Gly Phe Asp Pro Leu
20 25 30

Phe Asn Ala Ile Thr Gly Leu Asn Gly Ser Gly Lys Ser Asn Ile Leu
35 40 45

Asp Ser Ile Cys Phe Leu Leu Gly Ile Ser Asn Leu Ser Gln Val Arg
50 55 60

Ala Ser Lys Phe Thr Arg Phe
65 70

<210> 5717
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5717
Pro Thr Tyr Gly Cys Trp Asp Asn Ser Pro Ser Arg Met Tyr Cys Cys
1 5 10 15

Ser Ala Gln Asp Ser Lys Met Asp Tyr Lys Arg Arg Phe Leu Leu Gly
20 25 30

Gly Ser Lys Gln Lys Val Gln Gln His Ser Asn Thr Arg Cys Leu Ser
35 40 45

Trp Ala Glu His
50

<210> 5718
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5718
Phe Gly Thr Lys Glu Thr Val Asn Lys Asp Ile Cys Glu Lys Gly Thr
1 5 10 15

Ile Gln Gln Met Ile Gly Ile Phe Lys Asn Ile Ile Ser Lys Pro Asn
20 25 30

Glu Lys Glu Glu Ala Ile Val Leu Glu Ile Gln Ser Asp Ile Leu Leu
35 40 45

Ile Leu Ser Gly Xaa Cys Glu Asn His Ile Gln Arg Lys Glu Ile Phe
50 55 60

Gly Thr Glu Gly Val Asp Ile Val Leu His Val Met Lys Thr Asp Pro
65 70 75 80

Arg Lys Leu Gln Ser Gly Leu Gly Tyr Asn Val Leu Leu Phe Ser Thr
85 90 95

Leu Asp Ser Ile Trp Cys Cys Ile Leu Gly Cys Tyr Pro Ser Glu Asp
100 105 110

Tyr Phe Leu Glu Lys Glu Gly Ile Phe Leu Leu Leu Asp Leu Leu Ala
115 120 125

Leu Asn Gln Lys Asn Ser Val Ile
130 135

<210> 5719
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5719
Lys Ser Leu Gly Glu Lys Lys Ser His Thr Val Phe Leu Ala Ile Arg
1 5 10 15

Ile Met Lys Thr Asn Phe Gly Glu Cys Glu Gln Leu Arg Gln Thr Gly
20 25 30

His Arg Leu Gln Gly Leu Thr Ser Leu Thr Val Thr Asp Asn Leu Gly
35 40 45

Met Asp Pro Thr Ala Asp Val Ser Lys Gly His Arg Gly Glu Leu Val
50 55 60

Thr Ser Asn
65

<210> 5720
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5720
Leu Ile Arg Xaa Gln Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu
1 5 10 15

Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Leu Leu
20 25 30

Gln Lys Gly Tyr Ile Ile Leu Ser Leu Val Ile Gln Arg Tyr Ser
35 40 45

<210> 5721
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5721
Val Leu Leu Asn Trp Ile Ile Gln Tyr Tyr Gly Tyr Asn Val Ile Gln
1 5 10 15

Tyr Tyr Gly Gly Ile Cys Val Ile Ile Xaa Ile Asn Asn Thr Gly Glu
20 25 30

Ile Ser Gly Arg Gln Lys Ser Glu Met Ala Leu Thr Glu Phe Lys Ser
35 40 45

Arg Cys Trp Glu Gly Ser Thr Pro Leu Gly Gly Cys Gly Gly Gly Ser
50 55 60

Ile Ser Leu Pro Ser Pro Thr Tyr Gly Leu Cys Ile Pro Trp Leu Val

65 70 75 80

Ala Pro Ser Ser Ile Phe Lys Ala Ser Ser Val Val Leu Pro Ile Ser
85 90 95

Leu Ile Phe Leu
100

<210> 5722
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5722
Ala Arg Ala Glu Ile Gly Phe Leu Glu Gly Ser Ser Gly Lys Trp Pro
1 5 10 15

Asp Ser Ile Leu Arg Leu Cys Met Thr Ser Arg Tyr Tyr Pro Val Gly
20 25 30

Val Pro Trp Gly Ala Met Ala Ala Ile Arg Cys Arg Leu Gly Tyr Ile
35 40 45

Lys Trp Ala Glu Gly Thr Cys Leu Gly Arg Trp Gly Gly Leu Gln
50 55 60

<210> 5723
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5723
Phe Met Ile Leu Xaa Tyr Lys Ser Tyr Glu Phe Leu Glu Leu Gln Lys
1 5 10 15

Trp Pro Gly Val Val Ala His Thr Val Asn Pro Gly Thr Leu Gly Gly
20 25 30

Gln Gly Arg Arg Thr Thr
35

<210> 5724
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (89)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5724
Asp Glu Glu Val Tyr Ile Trp Val Ser Phe Leu His Pro Val Glu Ser
1 5 10 15

Ser Arg Lys Ser Gly Pro Ile Leu Ser Cys Ser Phe Thr Glu Lys Leu
20 25 30

Leu Ser Pro Phe Xaa Phe Leu Leu Asn Glu Leu Trp Ser Pro Asp Leu
35 40 45

Leu Cys Lys Gly Gln Pro Asp Pro Pro Phe Met His Ser Pro Ser Glu
50 55 60

Ser Leu Leu Val Ala Trp Leu Glu Xaa Ser Gly Ile Phe Glu Phe Trp
65 70 75 80

Pro Leu Gln Leu Ser Trp Gly Pro Xaa Gly Gly Leu Pro Pro Leu
85 90 95

<210> 5725
<211> 80
<212> PRT
<213> Homo sapiens

<400> 5725
His Glu Gly Val Ser Thr Ala Pro Ser Gln Lys Phe Tyr Ile Phe Tyr
1 5 10 15

```
Arg Gly Lys Lys Thr Leu Tyr Thr Met Ala Arg Pro Phe Leu Ser Gln
            20                  25                  30

Lys Ala Gly Pro Thr Glu Gln Phe Lys Leu Cys Ser Ser Arg Leu Lys
        35                  40                  45

Ala Gly Phe Val Glu Glu Leu Gln Leu Leu Ser Arg Ala Asn Pro Val
    50                  55                  60

Val Ile Gln Gly Glu Cys Lys Leu Ala Ser Leu Asp Arg Asp Gln Ser
65                  70                  75                  80
```

<210> 5726
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5726

```
Ile Gln Ile Asn Phe His Ala His Leu Tyr Leu Lys Asp Ser Asp Phe
 1               5                  10                  15

Ser Leu Ser Gln Leu Arg Asn Ile Arg Leu Asn Pro Ala Val Leu Gln
            20                  25                  30

Met Phe Leu Leu Arg Leu Lys His Gln Leu Ile Asn Arg Tyr Leu Phe
        35                  40                  45

Ile Phe Asn
    50
```

<210> 5727
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5727

```
Pro Xaa Ser Ser Trp Asp Tyr Arg His Thr Pro Pro Cys Pro Ala His
 1               5                  10                  15
```

```
Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro Gly Trp
            20                  25                  30

Leu His Leu Leu Thr Leu
        35
```

<210> 5728
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (109)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5728

```
Ser Lys Asp Gly Ala Xaa Cys Xaa Lys Ser Lys Asp Leu Leu Lys Gln
  1               5                  10                  15

Arg Tyr Leu Phe Ala Lys Ala Gly Tyr Pro Leu Arg Arg Ser Gln Ser
            20                  25                  30

Leu Pro Thr Thr Leu Leu Ser Pro Val Arg Val Val Ser Ser Val Asn
        35                  40                  45

Val Arg Leu Ser Pro Gly Lys Glu Thr Arg Cys Ser Pro Pro Ser Phe
    50                  55                  60

Thr Tyr Lys Tyr Thr Pro Glu Glu Glu Gln Glu Leu Glu Lys Arg Val
65                  70                  75                  80

Met Glu His Asp Gly Gln Ser Leu Val Lys Ser Thr Ile Phe Ile Ser
                85                  90                  95

Pro Ser Ser Val Lys Lys Glu Glu Ala Pro Gln Ser Xaa Ala Pro Arg
            100                 105                 110
```

<210> 5729
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5729
Ile Leu Phe Ala Pro Pro Arg Phe Ala Pro Glu Arg Gln Ser Ser Ser
1 5 10 15

Arg Gly Pro Leu Arg His Arg Tyr Ser Ser Gln Ile Xaa Thr His Phe
20 25 30

Thr Ala Thr Pro Gly Ile Leu Pro Pro Leu Arg Asp Ser Ser Leu Pro
35 40 45

Val Ser Asp Ala Val Pro Arg Leu Ser Pro Gly Ile Ser His Leu Thr
50 55 60

<210> 5730
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5730
Ser Leu Ser Ala Pro Glu Leu Lys Ser Leu Ala Lys Thr Phe His Leu
1 5 10 15

Val Asn Pro Asn Gly Gln Lys Gln Gln Leu Val Asp Ala Phe Leu Lys
20 25 30

Leu Ala Lys Gln Arg Ser Val Cys Thr Trp Gly Lys Asn Lys Pro Gly
35 40 45

Ile Gly Ala Val Ile Leu Lys Arg Phe Cys Trp Leu Leu Leu Gln
50 55 60

<210> 5731
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5731
Glu Met Ser His Lys Glu Arg His Phe Glu Leu Leu Leu Lys Ser Cys
1 5 10 15

Lys Val Ser Tyr Pro Gly Thr Val Phe Leu Asn Gly Asn Val Met Ala
20 25 30

Glu Ser Cys Ser Ile Thr Thr Xaa Gly Leu Val His Gln Val Pro Thr
35 40 45

His Pro Leu Gln Ala Leu Gly Ser Gly Met Cys Pro Ser Trp Lys Xaa
50 55 60

Gln Val Leu Trp Leu Cys Trp Phe Trp Leu Ser Phe Ser Val Thr Phe
65 70 75 80

Gln Tyr Leu Ser Pro Ser Arg Tyr Cys Lys Pro Leu Ser Asn
85 90

<210> 5732
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5732
Gly Xaa Gly Phe Trp Pro Ala Ser Val Ala Arg Val Leu Thr Gly Val
1 5 10 15

```
Thr Asn His Leu Ala Phe Asn Thr Lys Lys Pro His Ile Leu Arg Asn
            20                  25                  30

Pro Arg Thr Gln Lys Val Leu Gly Phe Val Ser Asp Ala Glu Gly Trp
        35                  40                  45

Val Glu Ser Met Lys Pro Thr Gln Arg Asp Asp Ser Thr Ile Cys Ser
    50                  55                  60

Ile Gly Trp Lys Trp Arg Gly
65                  70
```

<210> 5733
<211> 85
<212> PRT
<213> Homo sapiens

<400> 5733

```
His Gln Trp Arg Gly Ala Leu His Ile Leu Cys Gln Gln Gln His Ser
  1               5                  10                  15

His Thr Arg Trp Phe Trp Ala Leu Cys Arg Leu Val Leu Val Gly Asp
            20                  25                  30

Thr Gln Gln His Pro Cys Trp Thr Gly Leu Ile Val Arg Ser Leu Arg
        35                  40                  45

Pro Thr Leu Gln Ser Glu Met Leu Leu Gly Gly Gly Lys Glu Asn Thr
    50                  55                  60

Phe Phe Pro Pro Cys Gly Asn Glu Glu Arg Gly Lys Trp Ile Gly Lys
65                  70                  75                  80

Pro Lys Cys Glu Ser
                85
```

<210> 5734
<211> 123
<212> PRT
<213> Homo sapiens

<400> 5734

```
Phe Ser Leu Thr Leu Phe Pro Pro Pro Thr Cys His Gln Ala Ser Pro
  1               5                  10                  15

Lys Pro Thr Ala Met Gly Pro Ser Gly Pro Phe Arg Asp Trp Ser Glu
            20                  25                  30
```

Ile Trp Val Trp Arg Gly Arg Arg Gln Gly Gly Gly Ala Ser His Ser
35 40 45

Arg Thr Val Asp Glu Arg Asp Arg Leu Arg Arg Lys Trp Ala Leu Arg
50 55 60

Leu Gln Gly Trp Lys Ser Leu Pro Thr Ser His Ser Pro Ala Pro Ile
65 70 75 80

Tyr Leu Val Leu Pro Arg Gln Ile Gly Pro Phe Glu Ala Pro Glu Cys
85 90 95

Pro Gln Met Val Lys Thr Gln Phe Ser Leu Trp Glu Pro Lys Pro Gly
100 105 110

Cys Ile Gly Gly Gln Asp Pro Asp His Ser Leu
115 120

<210> 5735
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5735
Xaa Cys Pro Ile Ala Ser Glu Ala Pro Trp Thr Ile Thr Asp Ala Glu
1 5 10 15

Xaa Arg Val Xaa Leu Thr Val Glu Asp Ser Gln Pro Tyr Glu Asp Xaa
20 25 30

Xaa Xaa Gly Arg Ser Ser Leu Ser Lys Val
35 40

<210> 5736
<211> 34
<212> PRT
<213> Homo sapiens

<400> 5736
Tyr Pro Thr His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser
1 5 10 15

Gly Ile Pro Gly Ser Thr His Ala Ser Gly Ile Leu Gly Leu Arg Phe
20 25 30

Phe Met

<210> 5737
<211> 202
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5737
Tyr Ser Arg Pro Gln Ala His Ser Ser Ala Ser Gly Gly Ile Arg Arg
1 5 10 15

Ser Ser Ser Met Ser Tyr Val Asp Gly Phe Ile Gly Thr Trp Pro Lys
20 25 30

Glu Lys Arg Ser Ser Val His Gly Val Ser Phe Asp Ile Ser Phe Asp
35 40 45

Lys Glu Asp Ser Val Gln Arg Ser Thr Pro Asn Arg Gly Ile Thr Arg
50 55 60

Ser Ile Ser Asn Glu Gly Leu Thr Leu Asn Asn Ser His Val Ser Lys
65 70 75 80

His Ile Arg Lys Asn Leu Ser Phe Lys Pro Ile Asn Gly Glu Glu Glu

85 90 95

Ala Glu Ser Ile Glu Glu Glu Leu Asn Ile Asp Ser His Ser Asp Leu
100 105 110

Lys Ser Cys Val Pro Leu Asn Thr Asn Glu Leu Asn Ser Asn Glu Asn
115 120 125

Ile His Tyr Lys Leu Pro Asn Gly Ala Leu Gln Asn Arg Ile Leu Leu
130 135 140

Asp Glu Phe Gly Asn Gln Ile Glu Thr Pro Ser Ile Glu Glu Ala Leu
145 150 155 160

Gln Ile Ile His Asp Thr Xaa Lys Ser Pro His Thr Pro Gln Pro Asp
165 170 175

Gln Ile Ala Asn Gly Phe Phe Leu His Ser Gln Gly Met Ser Ile Leu
180 185 190

Asn Ser Xaa Ile Lys Leu Asn Gln Ser Ser
195 200

<210> 5738
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5738
Gly Arg Ile Ser His Val Gly Ser Arg Thr Glu Gly Ser Arg Leu Pro
1 5 10 15

Ala Gln Cys Ser Leu Cys Ser Thr Met Leu Pro Leu Val Gly Glu Thr
20 25 30

Gly Gln Lys
35

<210> 5739
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5739
Gln Trp Gly Lys Lys Ala Val Ser Arg Gly Phe Ser Lys Gly Asn Thr
1 5 10 15

```
Gln Met Ala Lys Lys His Met Gln Arg Cys Ser Met Phe Phe Val Ile
            20                  25                  30

Arg Lys Met
        35



<210> 5740
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5740
Glu Lys Thr Ile Leu Thr Gly Glu Cys Cys Tyr Leu Asn Pro Leu Leu
  1               5                  10                  15

Arg Arg Ile Ile Arg Phe Thr Gly Val Phe Ala Phe Gly Leu Phe Ala
            20                  25                  30

Thr Asp Ile Phe Val Asn Ala Gly Gln Val Val Thr Gly His Leu Thr
        35                  40                  45

Pro Tyr Phe Leu Thr Val Cys Lys Pro Asn Tyr Thr Ser Ala Asp Cys
    50                  55                  60

Xaa Ala His His Gln Phe Ile Asn Asn Gly Asn Ile Cys Thr Gly Asp
65                  70                  75                  80

Arg Glu Val Ile Glu Lys Ala Arg Arg Ser Phe Pro Ser Lys His Xaa
                85                  90                  95

Ala Leu Ser Ile Tyr Ser Ala Leu Tyr Ala Thr Met Tyr Ile Thr Ser
            100                 105                 110

Thr Ile Lys Thr Xaa Ser Ser Arg Leu Ala Lys Pro Val Leu Cys Leu
```

```
        115                 120                 125

Gly Thr Leu Cys Thr Ala Phe Leu Thr Gly Leu Asn Arg Val Ser Glu
    130                 135                 140

Tyr Arg Asn His Cys Ser Asp Val Ile Ala Gly Phe Ile Leu Gly Thr
145                 150                 155                 160

Ala Val Ala Leu Phe Leu Gly Met Cys Val Val His Asn Phe Lys Gly
                165                 170                 175

Thr Gln Gly Ser Pro Ser Lys Pro Lys Pro Glu Asp Pro Arg Gly Val
            180                 185                 190

Pro Leu Met Ala Phe Pro Arg Ile Glu Ser Pro Leu Glu Thr Leu Ser
        195                 200                 205

Ala Gln Asn His Ser Ala Ser Met Thr Glu Val Thr
    210                 215                 220
```

<210> 5741
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5741

```
Lys Thr Phe Arg Leu Phe Leu Ala Ile Ser Leu Thr Phe Ala Thr Ile
  1               5                  10                  15

Val Thr Lys His Ser Leu Tyr Met His Pro Pro Asn Val Ser Cys Leu
             20                  25                  30

Phe Ile Gly Lys Leu Tyr
         35
```

<210> 5742
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5742
Trp Gln Gly His Trp Pro Gly Pro His Leu Pro Ser Ser Xaa Leu Pro
1 5 10 15

Lys Arg Lys Leu Pro Trp Xaa Ser Arg Pro Leu Asn Ala Asn Ser Trp
20 25 30

Leu Pro Val Ser Gly Trp Val Asp Leu Thr Trp Pro Leu Leu Ala Gly
35 40 45

Pro Cys Ser Phe Leu Thr Cys Arg Xaa Glu Gln
50 55

<210> 5743
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5743
Xaa Leu Val Ala Gly Asp Ile Val Leu Asp Lys Leu Gly Glu Arg Leu
1 5 10 15

Ala Ile Leu Leu Lys Val Arg Asp Met Val Ser Ser His Val Glu Arg
20 25 30

Val Phe Gln Ile Tyr Glu Gln His Ala Asp Thr Val Gly Ile Asp Ala
35 40 45

Val Leu Gln Pro Ser Ala Val Ser Pro Ser Val Ala Asp Met Leu Glu
50 55 60

Trp Leu Gln Asp Ile Glu Arg His Tyr Arg Lys Ser Tyr Leu Lys Arg
65 70 75 80

Lys Tyr Leu Leu Ser Ser Ile Gln Trp Gly Asp Leu Ala Asn Ile Gln
85 90 95

```
Ala Leu Pro Lys Ala Trp Asp Arg Ile Ser Lys Asp Glu His Gln Asp
            100                 105                 110

Leu Val Gln Asp Ile Leu Leu Asn Val Ser
        115                 120
```

<210> 5744
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5744

```
Thr Xaa Asn Phe His Xaa Arg Xaa Glu Val Ile Asn Ser Gly His Gln
  1               5                  10                  15

Arg Ile Leu Ala Ser Ala Leu Gly Leu Val Met Tyr Gln Val Trp Tyr
             20                  25                  30

Tyr Phe Leu Phe Val Leu Ile Arg Phe Leu Pro Ser Ser Ser Ile Trp
         35                  40                  45

Glu Ile Lys Thr Gly Leu Leu Ala Trp Leu Val Thr Glu Arg Gln Ala
     50                  55                  60

His Ser
 65
```

<210> 5745
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5745
Ser Phe Pro Pro Arg Asn Ser Pro Arg Leu Lys Thr Xaa Leu His Tyr
1 5 10 15

Gln Val Met Arg Cys Glu Gly Gly Ser Leu Lys Val Glu Asn Leu Gly
20 25 30

Val Glu Ala Thr Val Pro Ser Trp Xaa Leu Ser Phe Leu Ile Cys Glu
35 40 45

Met Arg Val Asn Val Lys Leu Leu Cys Lys Met
50 55

<210> 5746
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5746
Lys Ala Thr Leu Leu Ser Cys Glu Ala His His Leu Ser Leu Ala Leu
1 5 10 15

Gly Ser Ser Cys Arg Arg Ser Leu Gly Pro Leu Met His Pro Phe Gln
20 25 30

Gln Thr Phe His Phe Gly Val Arg Xaa Asp Phe Leu Ala Leu Gln Gly
35 40 45

```
Ala Pro Ala Ser Ser Cys Ile Pro Cys Pro Gly Pro Gly Ile Ser Pro
     50                  55                  60

Phe Ser Lys Glu Pro Arg Val Leu Leu Leu Ala Ser Leu Lys Arg Val
 65                  70                  75                  80

Arg Pro Gly Cys Gln Ala Gly Ser Pro Arg Ser Phe Tyr Trp Glu Val
                85                  90                  95

Leu Glu Ser Glu Ala Trp Val Pro Gly Gly Cys Gln Val Gly Xaa Val
            100                 105                 110

Leu Leu Gly Cys Cys
        115
```

<210> 5747
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5747

```
Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Gly Ser Thr Ala Val Thr
  1               5                  10                  15

Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
             20                  25                  30

Gly Leu Val Arg Val Phe Phe Phe Phe Phe Phe Lys Thr Asn Thr Phe
         35                  40                  45

Ile Ala His Leu
     50
```

<210> 5748
<211> 270
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (266)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5748

```
Thr Leu Glu Gln Glu Gln Glu Ala Leu Val Asn Arg Leu Trp Lys Arg
  1               5                  10                  15
```

<211> 67
<212> PRT
<213> Homo sapiens

<400> 5749
Val Ile Gln Val Tyr Thr Ser Val Lys Ile Gln Arg Met Tyr Thr Gln
1 5 10 15

Asp Leu Cys Ile Ser Leu Tyr Val Asn Val Thr Leu Lys Cys Cys Lys
20 25 30

Gln Ile Leu Asn Lys Tyr Thr His Ala Lys Val Phe Lys Arg Lys Tyr
35 40 45

Trp Cys Leu Gln Asn Lys Asn Phe Phe Ser Ile Phe Cys Gly Lys Ile
50 55 60

Tyr Ile Ile
65

<210> 5750
<211> 152
<212> PRT
<213> Homo sapiens

<400> 5750
Pro Arg Gly Ser Val Gly Val Ser Ser Glu Leu His Gln Phe Pro Gly
1 5 10 15

Tyr Leu Gly Pro Trp Ile Thr Leu Arg Ser Ala Thr Cys Gln Leu Ile
20 25 30

Ser Lys Leu Leu Leu Ala Gly Leu Arg Leu Ser Arg Glu His Leu Gly
35 40 45

Glu Pro Cys Ala Ala Gly Trp Thr Pro Ala His Leu Ala Asp Tyr Ser
50 55 60

Cys Phe Cys Ser Pro Val Cys Pro Gln Glu Val Arg Ala Cys Leu Leu
65 70 75 80

Phe Leu His Asp His Gly Arg Arg Gly Thr Asn Met Arg Val Leu Ala
85 90 95

Ser Pro Gln Trp Trp Leu Pro Arg Ala Gly Glu Thr Leu Gly Glu Gly
100 105 110

Leu Gly Gln Gly Pro Leu Ser Leu Ala Ala Thr Ala Trp Val Asn Cys
115 120 125

Leu Ala Arg Leu Ala Ala Arg Ala Gln Lys Ala Glu Ala Leu Pro Ala
130 135 140

Phe Ser Ser His Pro Ala Pro Met
145 150

<210> 5751
<211> 98
<212> PRT
<213> Homo sapiens

<400> 5751
Arg Val Ala Val Glu Asp Val Ser Met Val Lys Gln Lys Asn Thr Thr
1 5 10 15

Phe Leu Trp Lys Glu Ile Leu Lys Gln Gln Ser Gln Ile Val Lys Met
20 25 30

Leu Arg Ile Ser Val Pro Pro Leu Thr Ser Val Ser Val Lys Pro Gln
35 40 45

Leu Gly Cys Thr Glu Asp Tyr Leu Leu Ser Lys Leu Pro Ser Asp Gly
50 55 60

Lys Glu Val Pro Phe Val Val Arg Lys Phe Lys Leu Ser Tyr Ile Gln
65 70 75 80

Pro Arg Thr Gln Glu Thr Pro Ser His Leu Glu Glu Leu Glu Gly Ser
85 90 95

Ala Gly

<210> 5752
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5752
Asp Arg Lys Arg Asp Leu Thr Ser Pro Trp Arg Leu Ser Val Ser Ala
1 5 10 15

```
Glu Ala Leu Gly Leu Ala Leu Gly Leu Cys Ile Pro Glu Ser Cys Cys
            20                  25                  30

Met Pro Gly Ile Gly Phe Gln Ala Cys Leu Ser Phe Ser Ser Leu Pro
        35                  40                  45

Gly Ile Ala Met Arg Trp Glu Gly Glu Pro Ser Ser Pro Ala Glu Ile
    50                  55                  60

Pro Ala Ala Trp Gln Pro Ala Gly Gly Ser Trp Ile Pro Arg Gly Asp
65                  70                  75                  80

Xaa Thr Asp Ala Leu Trp Phe His Val Ile Trp Ile
                85                  90
```

<210> 5753
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5753

```
Pro Arg Arg His Arg Val Pro Gly Ser Gly Phe Ala Phe Pro Lys Asn
  1               5                  10                  15
```

Glu Asn Lys Leu Leu Pro Lys Glu Leu Val Phe Pro Leu Leu Phe Ser
20 25 30

Asn Cys Glu Gly Pro Arg Gly Val Glu His Gly Ala Pro His Lys Pro
35 40 45

Xaa Gly Trp Cys Pro Gly Tyr Gln Gly His Ala Xaa Gly Leu Asp Asp
50 55 60

Leu Ser Leu Gln Gly Ala Leu Val Val Xaa Asn Trp Leu Lys Val Thr
65 70 75 80

Xaa Glu Gly Xaa Cys Gly Asn Trp
85

<210> 5754
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5754
Lys Ile Phe Ser Phe Ala Val Pro Asp Pro Leu Met Pro Asp Pro Xaa
1 5 10 15

Lys Gln Pro Lys Asn Gln Leu Asn Pro Ile Gly Ser
20 25

<210> 5755
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5755
Arg Met Asn Ile Cys Val Ser Val Cys Val Ser Glu Leu Cys Asp Phe
1 5 10 15

Ile Arg Gly Ile Cys Gln Phe Ser His Cys Gly Ser Phe Ser Asp Phe
20 25 30

Ala Cys Ser Ser Ser Lys Glu Ala Arg Ser Phe Ala Asp Phe Thr Ile
35 40 45

```
Pro Gln Thr Cys Lys Phe Leu Thr Ser Ser Lys Leu Ala Leu Ala Leu
     50                  55                  60

Ser Ser Thr Phe Pro Phe Lys Ser Asn Leu Cys
 65                  70                  75



<210> 5756
<211> 540
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (320)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (508)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5756
Thr Met Asp Glu Glu Glu Lys Asp Asp Gly Glu Ala Lys Glu Ile Ser
  1               5                  10                  15

Thr Pro Thr His Trp Ser Lys Leu Asp Pro Lys Thr Met Lys Val Asn
             20                  25                  30

Asp Leu Arg Lys Glu Leu Glu Ser Arg Ala Leu Ser Ser Lys Gly Leu
         35                  40                  45

Lys Ser Gln Leu Ile Ala Arg Leu Thr Lys Gln Leu Lys Val Glu Glu
     50                  55                  60

Gln Lys Glu Glu Gln Lys Glu Leu Glu Lys Ser Glu Lys Glu Glu Asp
 65                  70                  75                  80

Glu Asp Asp Asp Arg Lys Ser Glu Asp Asp Lys Glu Glu Glu Glu Arg
                 85                  90                  95

Lys Arg Gln Glu Glu Ile Glu Arg Gln Arg Arg Glu Arg Arg Tyr Ile
            100                 105                 110

Leu Pro Asp Glu Pro Ala Ile Ile Val His Pro Asn Trp Ala Ala Lys
        115                 120                 125

Ser Gly Lys Phe Asp Cys Ser Ile Met Ser Leu Ser Val Leu Leu Asp
    130                 135                 140
```

```
Tyr Arg Leu Glu Asp Asn Lys Glu His Ser Phe Glu Val Ser Leu Phe
145                 150                 155                 160

Ala Glu Leu Phe Asn Glu Met Leu Gln Arg Asp Phe Gly Val Arg Ile
                165                 170                 175

Tyr Lys Ser Leu Leu Ser Leu Pro Glu Lys Glu Asp Lys Lys Glu Lys
            180                 185                 190

Asp Lys Lys Ser Lys Lys Asp Glu Arg Lys Asp Lys Lys Glu Glu Arg
        195                 200                 205

Asp Asp Glu Thr Asp Glu Pro Lys Pro Lys Arg Arg Lys Ser Gly Asp
    210                 215                 220

Asp Lys Asp Lys Lys Glu Asp Arg Asp Glu Arg Lys Lys Glu Asp Lys
225                 230                 235                 240

Arg Lys Asp Asp Ser Lys Asp Asp Asp Glu Thr Glu Glu Asp Asn Asn
                245                 250                 255

Gln Asp Glu Tyr Asp Pro Met Glu Ala Glu Glu Ala Glu Asp Glu Glu
            260                 265                 270

Asp Asp Arg Asp Glu Glu Glu Met Thr Lys Arg Asp Asp Lys Arg Asp
        275                 280                 285

Ile Asn Arg Tyr Cys Lys Glu Arg Pro Ser Lys Asp Lys Glu Lys Glu
    290                 295                 300

Lys Thr Gln Met Ile Thr Ile Asn Arg Asp Leu Leu Met Ala Phe Xaa
305                 310                 315                 320

Tyr Phe Asp Gln Ser His Cys Gly Tyr Leu Leu Glu Lys Asp Leu Glu
                325                 330                 335

Glu Ile Leu Tyr Thr Leu Gly Leu His Leu Ser Arg Ala Gln Val Lys
            340                 345                 350

Lys Leu Leu Asn Lys Val Val Leu Arg Glu Ser Cys Phe Tyr Arg Lys
        355                 360                 365

Leu Thr Asp Thr Ser Lys Asp Glu Glu Asn His Glu Glu Ser Glu Ser
    370                 375                 380

Leu Gln Glu Asp Met Leu Gly Asn Arg Leu Leu Leu Pro Thr Pro Thr
385                 390                 395                 400

Val Lys Gln Glu Ser Lys Asp Val Glu Glu Asn Val Gly Leu Ile Val
                405                 410                 415
```

```
Tyr Asn Gly Ala Met Val Asp Val Gly Ser Leu Leu Gln Lys Leu Glu
            420                 425                 430

Lys Ser Glu Lys Val Arg Ala Glu Val Glu Gln Lys Leu Gln Leu Leu
        435                 440                 445

Glu Glu Lys Thr Asp Glu Asp Glu Lys Thr Ile Leu Asn Leu Glu Asn
    450                 455                 460

Ser Asn Lys Ser Leu Ser Gly Glu Leu Arg Glu Val Lys Lys Asp Leu
465                 470                 475                 480

Ser Gln Leu Gln Glu Asn Leu Lys Ile Ser Glu Asn Met Asn Leu Gln
                485                 490                 495

Phe Glu Asn Gln Met Asn Lys Thr Ile Arg Asn Xaa Ser Thr Val Met
            500                 505                 510

Asp Glu Ile His Thr Val Leu Lys Lys Asp Asn Val Lys Asn Glu Asp
        515                 520                 525

Lys Asp Gln Lys Ser Lys Glu Asn Gly Ala Ser Val
    530                 535                 540
```

<210> 5757
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (201)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (214)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5757

```
Glu Lys Gln Ala Glu Ile Leu Glu Tyr Ala Tyr His Gly Gln Ile Ala
  1               5                  10                  15
```

```
Ile Val Ala Pro Glu Ala Leu Leu Ala Gly His Asn Tyr Thr Leu Lys
            20                  25                  30

Ile Glu Tyr Ser Ala Asn Ile Ser Ser Ser Tyr Tyr Gly Phe Tyr Gly
        35                  40                  45

Phe Ser Tyr Thr Asp Glu Ser Asn Glu Lys Lys Tyr Phe Ala Ala Thr
    50                  55                  60

Gln Phe Glu Pro Leu Ala Ala Arg Ser Ala Phe Pro Cys Phe Asp Glu
65                  70                  75                  80

Pro Ala Phe Lys Ala Thr Phe Ile Ile Lys Ile Ile Arg Asp Glu Gln
                85                  90                  95

Tyr Thr Ala Leu Ser Asn Met Pro Lys Lys Ser Ser Val Val Leu Asp
            100                 105                 110

Asp Gly Leu Val Gln Asp Glu Phe Ser Glu Ser Val Lys Met Ser Thr
        115                 120                 125

Tyr Leu Val Ala Phe Ile Val Gly Glu Met Lys Asn Leu Ser Gln Asp
    130                 135                 140

Val Asn Gly Thr Leu Val Ser Ile Tyr Ala Val Pro Glu Lys Ile Gly
145                 150                 155                 160

Gln Val His Tyr Ala Leu Glu Thr Thr Val Lys Leu Leu Glu Phe Phe
                165                 170                 175

Gln Asn Tyr Phe Glu Ile Gln Tyr Pro Leu Lys Lys Leu Asp Leu Val
            180                 185                 190

Ala Ile Pro Asp Phe Glu Ala Arg Xaa Asn Gly Lys Leu Gly Phe Cys
        195                 200                 205

Ser Pro Ser Glu Lys Xaa Thr Leu Leu Phe Asp Xaa Tyr Thr Ser Ser
    210                 215                 220

Met Ala Asp Lys Lys Ala Gly
225                 230
```

<210> 5758
<211> 294
<212> PRT
<213> Homo sapiens

<400> 5758
Asn Met Thr Glu Asp Ser Gln Arg Asn Phe Arg Ser Val Tyr Tyr Glu

```
 1               5                  10                  15

Lys Val Gly Phe Arg Gly Val Glu Glu Lys Lys Ser Leu Glu Ile Leu
            20                  25                  30

Leu Lys Asp Asp Arg Leu Asp Thr Glu Lys Leu Cys Thr Phe Ser Gln
        35                  40                  45

Arg Phe Pro Leu Pro Ser Met Tyr Arg Ala Leu Val Trp Lys Val Leu
    50                  55                  60

Leu Gly Ile Leu Pro Pro His His Glu Ser His Ala Lys Val Met Met
65                  70                  75                  80

Tyr Arg Lys Glu Gln Tyr Leu Asp Val Leu His Ala Leu Lys Val Val
                85                  90                  95

Arg Phe Val Ser Asp Ala Thr Pro Gln Ala Glu Val Tyr Leu Arg Met
            100                 105                 110

Tyr Gln Leu Glu Ser Gly Lys Leu Pro Arg Ser Pro Ser Phe Pro Leu
        115                 120                 125

Glu Pro Asp Asp Glu Val Phe Leu Ala Ile Ala Lys Ala Met Glu Glu
    130                 135                 140

Met Val Glu Asp Ser Val Asp Cys Tyr Trp Ile Thr Arg Arg Phe Val
145                 150                 155                 160

Asn Gln Leu Asn Thr Lys Tyr Arg Asp Ser Leu Pro Gln Leu Pro Lys
                165                 170                 175

Ala Phe Glu Gln Tyr Leu Asn Leu Glu Asp Gly Arg Leu Leu Thr His
            180                 185                 190

Leu Arg Met Cys Ser Ala Ala Pro Lys Leu Pro Tyr Asp Leu Trp Phe
        195                 200                 205

Lys Arg Cys Phe Ala Gly Cys Leu Pro Glu Ser Ser Leu Gln Arg Val
    210                 215                 220

Trp Asp Lys Val Val Ser Gly Ser Cys Lys Ile Leu Val Phe Val Ala
225                 230                 235                 240

Val Glu Ile Leu Leu Thr Phe Lys Ile Lys Val Met Ala Leu Asn Ser
                245                 250                 255

Ala Glu Lys Ile Thr Lys Phe Leu Glu Asn Ile Pro Gln Asp Ser Ser
            260                 265                 270

Asp Ala Ile Val Ser Lys Ala Ile Asp Leu Trp His Lys His Cys Gly
```

275 280 285

Thr Pro Val His Ser Ser
290

<210> 5759
<211> 431
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5759
Xaa Phe Gly Ala Xaa Gly Thr Val Glu Ser Glu Thr Ser Pro Asp Arg
1 5 10 15

Asp Lys Lys Lys Glu Gln Ser Glu Val Ser Val Ser Pro Arg Ala Ser
20 25 30

Lys His His Tyr Ser Arg Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg
35 40 45

Lys Ser Asp Asn Glu Gly Arg Lys His Arg Ser Arg Ser Arg Ser Lys
50 55 60

Glu Gly Arg Arg His Glu Ser Lys Asp Lys Ser Ser Lys Lys His Lys
65 70 75 80

Ser Glu Glu His Asn Asp Lys Glu His Ser Ser Asp Lys Gly Arg Glu
85 90 95

Arg Leu Asn Ser Ser Glu Asn Gly Glu Asp Arg His Lys Arg Lys Glu
100 105 110

Arg Lys Ser Ser Arg Gly Arg Ser His Ser Arg Ser Arg Ser Arg Glu
115 120 125

Arg Arg His Arg Ser Arg Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg
130 135 140

Ser Arg Glu Arg Lys Lys Ser Arg Ser Arg Ser Arg Glu Arg Lys Lys

```
145                 150                 155                 160

Ser Arg Ser Arg Ser Arg Glu Arg Lys Arg Arg Ile Arg Ser Arg Ser
                165                 170                 175

Arg Ser Arg Ser Arg His Arg His Arg Thr Arg Ser Arg Ser Arg Thr
            180                 185                 190

Arg Ser Arg Ser Arg Asp Arg Lys Lys Arg Ile Glu Lys Pro Arg Arg
        195                 200                 205

Phe Ser Arg Ser Leu Ser Arg Thr Pro Ser Pro Pro Pro Phe Arg Gly
    210                 215                 220

Arg Asn Thr Ala Met Asp Ala Gln Glu Ala Leu Ala Arg Arg Leu Glu
225                 230                 235                 240

Arg Ala Lys Lys Leu Gln Glu Gln Arg Glu Lys Glu Met Val Glu Lys
                245                 250                 255

Gln Lys Gln Gln Glu Ile Ala Ala Ala Ala Ala Ala Thr Gly Gly Ser
            260                 265                 270

Val Leu Asn Val Ala Ala Leu Leu Ala Ser Gly Thr Gln Val Thr Pro
        275                 280                 285

Gln Ile Ala Met Ala Ala Gln Met Ala Ala Leu Gln Ala Lys Ala Leu
    290                 295                 300

Ala Glu Thr Gly Ile Ala Val Pro Ser Tyr Tyr Asn Pro Ala Ala Val
305                 310                 315                 320

Asn Pro Met Lys Phe Ala Glu Gln Glu Lys Lys Arg Lys Met Leu Trp
                325                 330                 335

Gln Gly Lys Lys Glu Gly Asp Lys Ser Gln Ser Ala Glu Ile Trp Glu
            340                 345                 350

Lys Leu Asn Phe Gly Asn Lys Asp Gln Asn Val Lys Phe Arg Lys Leu
        355                 360                 365

Met Gly Ile Lys Ser Glu Asp Glu Ala Gly Cys Ser Ser Val Asp Glu
    370                 375                 380

Glu Ser Tyr Lys Thr Leu Lys Gln Gln Glu Glu Val Phe Arg Asn Leu
385                 390                 395                 400

Asp Ala Gln Tyr Glu Met Ala Arg Ser Gln Thr His Thr Gln Arg Gly
                405                 410                 415

Met Gly Leu Gly Phe Thr Ser Ser Met Arg Gly Met Asp Ala Val
```

420 425 430

<210> 5760
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5760
Ala Gly Val Phe Ile Gly Glu Arg Lys Cys Val Val Trp Ala Gly Leu
1 5 10 15

Leu Val Glu Ala Gly Phe Leu Ala His Leu Leu Tyr Met Leu Pro Met
20 25 30

Asp Leu Arg Leu Glu Met Leu Lys Val Glu Trp Asn Tyr Phe Pro Pro
35 40 45

Lys Thr Phe Ile Tyr Ser Thr Pro Leu Tyr Pro
50 55

<210> 5761
<211> 99
<212> PRT
<213> Homo sapiens

<400> 5761
Val Ile Phe Tyr Phe Thr Asn Lys Gly Thr Lys Ser Met Asn Ile Ser
1 5 10 15

Leu Phe Leu Ile Ile Ser Ala Leu Lys Tyr Phe Gly Tyr Leu Ala Pro
20 25 30

Val Arg Ala Asp Trp His Cys Leu Val Gln Glu Val Cys Ser Arg Cys
35 40 45

Ser Ala Ser Glu Leu His Tyr Asp Cys Pro Pro Thr Asn His Pro Pro
50 55 60

Ala Ser Pro Arg Glu Arg Gly Ile Gln Arg Gly Thr Val Leu Thr Arg
65 70 75 80

Ser Ser Gln Leu Asp Pro Gly Gln Arg Asn Pro Tyr Pro Gly Thr Leu
85 90 95

Ser Leu Ser

<210> 5762
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5762
Pro Pro Ser Leu Thr Lys Gly Asn Lys Ser Trp Cys Ser Thr Ala Val
1 5 10 15

Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30

Arg Phe Pro Leu Phe Leu Gly Val Ser Ile Leu Ser Pro Trp Lys Met
35 40 45

<210> 5763
<211> 101
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5763
Trp Asn Glu His Arg Pro Leu Asn Pro Arg Tyr Glu Phe Lys Ser Gln
1 5 10 15

Leu Trp Arg Trp Leu Leu Lys Val Ser Val Pro Ser Phe Phe Xaa Leu
20 25 30

Tyr Lys Val Asp Ile Thr Ile Ser Asn Leu Gln Ser His Trp Glu Leu
35 40 45

```
Tyr Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser
     50                  55                  60

Lys Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile
 65                  70                  75                  80

Ile Ile Ser Leu Xaa Xaa Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe
                 85                  90                  95

Pro Gln Tyr Phe Pro
            100
```

<210> 5764
<211> 136
<212> PRT
<213> Homo sapiens

<400> 5764

```
Cys Val Ile Leu Thr Lys Gly Ser Ser Leu Gly Gln Pro Ser Pro Gly
  1               5                  10                  15

Leu Gly His Ile His Leu Val Ala Lys Pro Leu Leu Gly Pro Lys Tyr
             20                  25                  30

Thr Pro Glu Ser Cys Gln Arg Lys Glu Ile Phe Lys Lys His Arg Gln
         35                  40                  45

Ile Val Cys Lys Trp Lys Ile Pro Ile Gly Leu Asp Ser Cys Gly Gly
     50                  55                  60

Lys Thr Ser Trp Val Pro Gly Gly Cys Gln Ser Trp Glu Leu Cys Arg
 65                  70                  75                  80

Tyr Glu Ser Gly Lys Ala Gln Arg Gln Ala Glu Ser Leu Tyr Gly Asp
                 85                  90                  95

Asn Leu Gln Cys Leu Leu Gly Phe Pro Asn Asn Leu Gly Val Gln Ser
            100                 105                 110

Ile Gly Phe Phe Ser Pro Leu Pro Thr Pro Arg Lys Ile Ile Arg Lys
        115                 120                 125

Met Phe Arg Arg Lys Glu Lys Asn
    130                 135
```

<210> 5765

<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (160)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (161)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5765

```
Val Arg Val Gln Glu Val Val Lys Glu Asn Glu Glu Leu His Gln Glu
  1               5                  10                  15

Leu Asn Lys Ser Ser Ala Val Thr Ser Glu Glu Trp Arg Gln Leu Gln
             20                  25                  30

Thr Xaa Ala Lys Leu Val Leu Glu Glu Asn Lys Leu Leu Leu Glu Gln
         35                  40                  45

Leu Glu Ile Gln Gln Arg Lys Ala Lys Asp Ser His Gln Glu Arg Leu
     50                  55                  60

Gln Glu Val Ser Lys Leu Thr Lys Gln Leu Met Leu Leu Glu Ala Lys
 65                  70                  75                  80

Thr His Gly Gln Glu Lys Glu Leu Ala Glu Asn Arg Glu Gln Leu Glu
                 85                  90                  95

Ile Leu Arg Ala Lys Cys Gln Glu Leu Lys Thr His Ser Asp Gly Lys
            100                 105                 110
```

```
Ile Ala Val Glu Val His Lys Ser Ile Val Asn Glu Leu Lys Ser Gln
        115                 120                 125

Leu Gln Lys Glu Glu Xaa Lys Glu Arg Ala Glu Met Glu Glu Leu Met
    130                 135                 140

Glu Lys Leu Thr Val Leu Gln Ala Gln Lys Lys Ser Leu Leu Leu Xaa
145                 150                 155                 160

Xaa Asn Ile Leu Thr Glu Xaa Asn
                165
```

<210> 5766
<211> 135
<212> PRT
<213> Homo sapiens

<400> 5766

```
Ile Arg His Glu Val Val Gly Gly Ser Gly Gly Val Tyr Ala Leu Cys
  1               5                  10                  15

Ser Ala His Leu Ala Asn Val Val Met Asn Trp Ala Gly Met Arg Cys
             20                  25                  30

Pro Tyr Lys Leu Leu Arg Met Val Leu Ala Leu Val Cys Met Ser Ser
         35                  40                  45

Glu Val Gly Arg Ala Val Trp Leu Arg Phe Ser Pro Pro Leu Pro Ala
     50                  55                  60

Ser Gly Pro Gln Pro Ser Phe Met Ala His Leu Ala Gly Ala Val Val
 65                  70                  75                  80

Gly Val Ser Met Gly Leu Thr Ile Leu Arg Ser Tyr Glu Glu Arg Leu
                 85                  90                  95

Arg Asp Gln Cys Gly Trp Trp Val Val Leu Leu Ala Tyr Gly Thr Phe
            100                 105                 110

Leu Leu Phe Ala Val Phe Trp Asn Val Phe Ala Tyr Asp Leu Leu Gly
        115                 120                 125

Ala His Ile Pro Pro Pro Pro
    130                 135
```

<210> 5767
<211> 351

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5767
Ile Arg His Glu Ile Leu Trp Leu Leu Cys Ser His Arg Pro Ala Pro
1 5 10 15

Gly Arg Pro Pro Thr His Asn Ala His Asn Trp Arg Leu Gly Gln Ala
20 25 30

Pro Ala Xaa Trp Tyr Asn Asp Thr Tyr Pro Leu Ser Pro Pro Gln Arg
35 40 45

Thr Pro Ala Gly Ile Arg Tyr Arg Ile Ala Val Ile Ala Asp Leu Asp
50 55 60

Thr Glu Ser Arg Ala Gln Glu Glu Asn Thr Trp Phe Ser Tyr Leu Lys
65 70 75 80

Lys Gly Tyr Leu Thr Leu Ser Asp Ser Gly Asp Lys Val Ala Val Glu
85 90 95

Trp Asp Lys Asp His Gly Val Leu Glu Ser His Leu Ala Glu Lys Gly
100 105 110

Arg Gly Met Glu Leu Ser Asp Leu Ile Val Phe Asn Gly Lys Leu Tyr
115 120 125

Ser Val Asp Asp Arg Thr Gly Val Val Tyr Gln Ile Glu Gly Ser Lys
130 135 140

Ala Val Pro Trp Val Ile Leu Ser Asp Gly Asp Gly Thr Val Glu Lys
145 150 155 160

Gly Phe Lys Ala Glu Trp Leu Ala Val Lys Asp Glu Arg Leu Tyr Val
165 170 175

Gly Gly Leu Gly Lys Glu Trp Thr Thr Thr Thr Gly Asp Val Val Asn
180 185 190

Glu Asn Pro Glu Trp Val Lys Val Val Gly Tyr Lys Gly Ser Val Asp
195 200 205

His Glu Asn Trp Val Ser Asn Tyr Asn Ala Leu Arg Ala Ala Ala Gly
210 215 220

```
Ile Gln Pro Pro Gly Tyr Leu Ile His Glu Ser Ala Cys Trp Ser Asp
225                 230                 235                 240

Thr Leu Gln Arg Trp Phe Phe Leu Pro Arg Arg Ala Ser Gln Glu Arg
                245                 250                 255

Tyr Ser Glu Lys Asp Asp Glu Arg Lys Gly Ala Asn Leu Leu Leu Ser
            260                 265                 270

Ala Ser Pro Asp Phe Gly Asp Ile Ala Val Ser His Val Gly Ala Val
        275                 280                 285

Val Pro Thr His Gly Phe Ser Ser Phe Lys Phe Ile Pro Asn Thr Asp
    290                 295                 300

Asp Gln Ile Ile Val Ala Leu Lys Ser Glu Glu Asp Ser Gly Arg Val
305                 310                 315                 320

Ala Ser Tyr Ile Met Ala Phe Thr Leu Asp Gly Arg Phe Leu Leu Pro
                325                 330                 335

Glu Thr Lys Ile Gly Ser Val Lys Tyr Glu Gly Ile Glu Phe Ile
            340                 345                 350
```

<210> 5768
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5768

```
Asn Tyr Gln Ile Ser Glu Ile Tyr Phe Leu Leu Val Thr Met Lys Ser
  1               5                  10                  15

Thr Phe Thr Leu Glu Ser Asn Cys Asn Thr Pro Lys Ile Arg Ala Thr
             20                  25                  30

Lys Gly Met Tyr Gly Ala Phe Phe Asn Leu Lys Asn Cys Ile Leu Phe
         35                  40                  45

Leu Ile Pro Tyr Leu Lys His
     50                  55
```

<210> 5769
<211> 121
<212> PRT
<213> Homo sapiens

<400> 5769
Tyr Pro Phe Phe Thr Leu Cys Gln Arg Asn Arg Val Phe Asp Ile Ser
1 5 10 15

Ser Tyr Val Lys Glu Met Leu Gln Asn Val Asn Cys Phe Lys Leu Lys
20 25 30

Leu Pro Leu Lys Arg Pro Arg Tyr Ile Tyr Leu Ile Val Tyr Ile Met
35 40 45

Phe Asn Ile Cys Gln Ser Ile Leu Gln Val Cys Ser Phe Ile Ser Ile
50 55 60

Lys Tyr Gly Tyr Tyr Val Ala Gln Leu Leu Lys Trp Tyr Cys Ile Val
65 70 75 80

Tyr Ile Cys Thr Pro Asn Asn Ile Val Cys Thr Phe Cys Phe Leu Tyr
85 90 95

Cys Ile Cys Ala Gly Phe Phe Arg Leu Tyr Gln Cys Asn Leu Cys Leu
100 105 110

Leu Arg Tyr Val Gln Lys Met Ser Ile
115 120

<210> 5770
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (181)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5770
Glu Phe Gly Thr Ser His Trp Asp Met Ser Leu Pro Leu Ile Val Thr
1 5 10 15

Leu Ser Thr Ile Ser Ile Ile Leu Leu Ala Ala Met Ile Thr Ile Ala
20 25 30

Val Lys Cys Lys Arg Glu Asn Lys Glu Ile Arg Thr Tyr Asn Cys Arg
35 40 45

Ile Ala Glu Tyr Ser His Pro Gln Leu Gly Gly Gly Lys Gly Lys Lys
50 55 60

Lys Lys Ile Asn Lys Asn Asp Ile Met Leu Val Gln Ser Glu Val Glu

65 70 75 80

Glu Arg Asn Ala Met Asn Val Met Asn Val Val Ser Ser Pro Ser Leu
85 90 95

Ala Thr Ser Pro Met Tyr Phe Asp Tyr Gln Thr Arg Leu Pro Leu Ser
100 105 110

Ser Pro Arg Ser Glu Val Met Tyr Leu Lys Pro Ala Ser Asn Asn Leu
115 120 125

Thr Val Pro Gln Gly His Ala Gly Cys His Thr Ser Phe Thr Gly Gln
130 135 140

Gly Thr Asn Ala Ser Glu Thr Pro Ala Thr Arg Met Ser Ile Ile Gln
145 150 155 160

Thr Asp Asn Phe Pro Ala Glu Pro Asn Tyr Met Gly Ser Arg Gln Gln
165 170 175

Phe Val Gln Ser Xaa Ser Thr Phe Lys Asp Pro Glu Arg Pro Ala
180 185 190

<210> 5771
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5771
Arg Xaa Pro Xaa Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
1 5 10 15

Val Thr Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
20 25 30

Ala Arg Ala Pro Ala Ser Arg Ser Arg Thr Pro Pro Ala Ser Arg Leu
35 40 45

Thr Arg Ser Cys Gln Arg Arg Ser Ala Ala Ala Glu Pro Lys Gly Pro
50 55 60

Glu Asp Ser Gly Ala Gly Gly Thr Gly Cys Gly Gly Ala Asp Asp Pro
65 70 75 80

Ala Lys Lys Lys Lys Gln Arg Arg Gln Arg Thr His Phe Thr Xaa Gln
85 90 95

Gln Leu Gln Glu Leu Glu Ala Thr Phe Gln Arg Asn Arg Tyr Pro Asp
100 105 110

Met Ser Met Arg Glu Glu Ile Ala Val Trp Thr Asn Leu Thr Glu Pro
115 120 125

Arg

<210> 5772
<211> 399
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (349)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5772
Leu Glu Pro Pro Ala Glu Pro Leu Gln Tyr Leu Ala Cys Tyr Arg Phe
1 5 10 15

His Cys Ser His Gln Leu Gly Asp Asn Met Trp Phe Leu Thr Thr Leu
20 25 30

Leu Leu Trp Val Pro Val Asp Gly Gln Val Asp Thr Thr Lys Ala Val
35 40 45

Ile Thr Leu Gln Pro Pro Trp Val Ser Val Phe Gln Glu Glu Thr Val
50 55 60

```
Thr Leu His Cys Glu Val Leu His Leu Pro Gly Ser Ser Ser Thr Gln
 65                  70                  75                  80

Trp Phe Leu Asn Gly Thr Ala Thr Gln Thr Ser Thr Pro Ser Tyr Arg
                 85                  90                  95

Ile Thr Ser Ala Ser Val Asn Asp Ser Gly Glu Tyr Arg Cys Gln Arg
            100                 105                 110

Gly Leu Ser Gly Arg Ser Asp Pro Ile Gln Leu Glu Ile His Arg Gly
        115                 120                 125

Trp Leu Leu Leu Gln Val Ser Ser Arg Val Phe Thr Glu Gly Glu Pro
    130                 135                 140

Leu Ala Leu Arg Cys His Ala Trp Lys Asp Lys Leu Val Tyr Asn Val
145                 150                 155                 160

Leu Tyr Tyr Arg Asn Gly Lys Ala Phe Lys Phe Phe His Trp Asn Ser
                165                 170                 175

Asn Leu Thr Ile Leu Lys Thr Asn Ile Ser His Asn Gly Thr Tyr His
            180                 185                 190

Cys Ser Gly Met Gly Lys His Arg Tyr Thr Ser Ala Gly Ile Ser Xaa
        195                 200                 205

Thr Val Lys Glu Leu Phe Pro Ala Pro Val Leu Asn Ala Ser Val Thr
    210                 215                 220

Ser Pro Leu Leu Glu Gly Asn Leu Val Thr Leu Ser Cys Glu Thr Lys
225                 230                 235                 240

Leu Leu Leu Gln Arg Pro Gly Leu Gln Leu Tyr Phe Ser Phe Tyr Met
                245                 250                 255

Gly Ser Lys Thr Leu Arg Gly Arg Asn Thr Ser Ser Glu Tyr Gln Ile
            260                 265                 270

Leu Thr Ala Arg Arg Glu Asp Ser Gly Leu Tyr Trp Cys Glu Ala Ala
        275                 280                 285

Thr Glu Asp Gly Asn Val Leu Lys Arg Ser Pro Glu Leu Glu Leu Gln
    290                 295                 300

Val Leu Gly Leu Gln Leu Pro Thr Pro Val Trp Phe His Val Leu Phe
305                 310                 315                 320

Tyr Leu Ala Val Gly Ile Met Phe Leu Val Asn Thr Val Leu Trp Val
                325                 330                 335
```

```
Thr Ile Arg Lys Glu Leu Lys Arg Lys Lys Lys Trp Xaa Leu Glu Ile
            340                 345                 350

Ser Leu Asp Ser Gly His Glu Lys Lys Val Ile Ser Ser Leu Gln Glu
        355                 360                 365

Asp Arg His Leu Glu Glu Glu Leu Lys Cys Gln Glu Gln Lys Glu Glu
    370                 375                 380

Gln Leu Gln Glu Gly Val His Arg Lys Glu Pro Gln Gly Ala Thr
385                 390                 395
```

<210> 5773
<211> 164
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5773

```
Gly Asp Arg Ala Glu Pro Ser Val Tyr Trp Ala Ala Val Thr Leu Arg
  1               5                  10                  15

Phe Gln Met Xaa Met Phe Glu Ser Ala Asp Ser Thr Ala Thr Arg Ser
             20                  25                  30

Gly Gln Asp Leu Trp Ala Glu Ile Cys Ser Cys Leu Pro Asn Pro Glu
         35                  40                  45

Gln Glu Asp Gly Ala Asn Asn Ala Phe Ser Asp Ser Phe Val Asp Ser
     50                  55                  60

Cys Pro Glu Gly Glu Gly Gln Arg Glu Val Ala Asp Phe Ala Val Gln
 65                  70                  75                  80

Pro Ala Val Lys Pro Trp Ala Pro Leu Gln Asp Ser Glu Val Tyr Leu
                 85                  90                  95

Ala Ser Leu Glu Lys Lys Leu Arg Arg Ile Lys Gly Leu Asn Gln Glu
            100                 105                 110
```

```
Val Thr Ser Lys Asp Met Leu Arg Thr Leu Ala Gln Ala Lys Lys Glu
        115                 120                 125

Cys Trp Asp Arg Phe Leu Gln Glu Lys Leu Ala Ser Glu Phe Phe Val
    130                 135                 140

Asp Gly Leu Asp Ser Asp Glu Ser Thr Xaa Gly Thr Phe Gln Glu Val
145                 150                 155                 160

Ala Pro Ala Arg
```

<210> 5774
<211> 184
<212> PRT
<213> Homo sapiens

<400> 5774

```
Lys Met Ala Ser Asn Lys Thr Thr Leu Gln Lys Met Gly Lys Lys Gln
  1               5                  10                  15

Asn Gly Lys Ser Lys Lys Val Glu Glu Ala Glu Pro Glu Glu Phe Val
             20                  25                  30

Val Glu Lys Val Leu Asp Arg Arg Val Val Asn Gly Lys Val Glu Tyr
         35                  40                  45

Phe Leu Lys Trp Lys Gly Phe Thr Asp Ala Asp Asn Thr Trp Glu Pro
     50                  55                  60

Glu Glu Asn Leu Asp Cys Pro Glu Leu Ile Glu Ala Phe Leu Asn Ser
 65                  70                  75                  80

Gln Lys Ala Gly Lys Glu Lys Asp Gly Thr Lys Arg Lys Ser Leu Ser
                 85                  90                  95

Asp Ser Glu Ser Asp Asp Ser Lys Ser Lys Lys Lys Arg Asp Ala Ala
            100                 105                 110

Asp Lys Pro Arg Gly Phe Ala Arg Gly Leu Asp Pro Glu Arg Ile Ile
        115                 120                 125

Gly Ala Thr Asp Ser Ser Gly Glu Leu Met Phe Leu Met Lys Trp Lys
    130                 135                 140

Asp Ser Asp Glu Ala Asp Leu Val Leu Ala Lys Glu Ala Asn Met Lys
145                 150                 155                 160
```

```
Cys Pro Gln Ile Val Ile Ala Phe Tyr Glu Glu Arg Leu Thr Trp His
                165                 170                 175

Ser Cys Pro Glu Asp Glu Ala Gln
            180
```

<210> 5775
<211> 76
<212> PRT
<213> Homo sapiens

<400> 5775

```
Lys Val Thr Glu Asp Thr Ser Ser Val Leu Arg Ser Pro Met Pro Gly
  1               5                  10                  15

Val Val Val Ala Val Ser Val Lys Pro Gly Asp Ala Val Ala Glu Gly
             20                  25                  30

Gln Glu Ile Cys Val Ile Glu Ala Met Lys Met Gln Asn Ser Met Thr
         35                  40                  45

Ala Gly Lys Thr Gly Thr Val Lys Ser Val His Cys Gln Ala Gly Asp
     50                  55                  60

Thr Val Gly Glu Gly Asp Leu Leu Val Glu Leu Glu
 65                  70                  75
```

<210> 5776
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5776

```
Thr Leu Gln Ser Lys Asp Ile Asp Trp Leu Asn Glu Trp Arg Lys Gln
  1               5                  10                  15

Asp Pro Leu Ile Cys Cys Leu Gln Glu Thr His Leu Asn Tyr Lys Asp
             20                  25                  30

Thr His Arg Leu Lys Val Lys Ser Trp Lys Glu Leu Phe His Ala Asn
         35                  40                  45

Gly Asn Gln Glu Lys Glu Lys Glu Tyr
     50                  55
```

<210> 5777
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5777
Arg Gln Lys Gly Thr Ala Ala Arg Arg Arg Gln Xaa Gly Leu Leu Ala
1 5 10 15

Ser Ser Arg Pro Glu Pro Ala Asn Glu Arg Lys Met Ala Asp Asn Phe
20 25 30

Ser Leu His Asp Ala Leu Ser Gly Ser Gly Asn Pro Asn Pro Gln Gly
35 40 45

Trp Pro Gly Ala Trp Gly Asn Gln Pro Ala Gly Ala Gly Gly Tyr Pro
50 55 60

Gly Ala Ser Tyr Pro Gly Ala Tyr Pro Gly Gln Ala Pro Pro Gly Ala
65 70 75 80

Tyr Pro Gly Gln Ala Pro Pro Gly Ala Tyr Xaa Gly Ala Pro Gly Ala
85 90 95

Tyr Pro Gly Ala Pro Ala Pro Gly Val Tyr Pro Gly Pro Pro Ser Gly
100 105 110

Pro Gly Ala Tyr Pro Ser Ser Gly Gln Pro Ser Ala Xaa Gly Ala Tyr
115 120 125

Pro Ala Thr Gly Pro Tyr Gly Ala Pro Ala Gly Pro Leu Ile Val Pro
130 135 140

Tyr Asn Leu Pro Leu Pro Gly Gly Val Val Pro Arg Met Leu Ile Thr
145 150 155 160

```
Ile Leu Gly Thr Val Lys Pro Asn Ala Asn Arg Ile Ala Leu Asp Phe
                165                 170                 175

Gln Arg Gly Asn Asp Val Ala Phe His Phe Asn Pro Arg Phe Asn Glu
            180                 185                 190

Asn Asn Arg Arg Val Ile Val Cys Asn Thr Lys Leu Asp Asn Asn Trp
        195                 200                 205

Gly Arg Glu Glu Arg Gln Ser Val Phe Pro Phe Glu Ser Gly Lys Pro
    210                 215                 220

Phe Lys Ile Gln Val Leu Val Glu Pro Asp His Phe Lys Val Ala Val
225                 230                 235                 240

Asn Asp Ala His Leu Leu Gln Tyr Asn His Arg Val Lys Lys Leu Asn
                245                 250                 255

Glu Ile Ser Lys Leu Gly Ile Ser Gly Asp Ile Asp Leu Thr Ser Ala
            260                 265                 270

Ser Tyr Thr Met Ile
        275
```

<210> 5778
<211> 565
<212> PRT
<213> Homo sapiens

<400> 5778

```
Leu His Cys Thr Met Cys Gly Ile Trp Ala Leu Phe Gly Ser Asp Asp
  1               5                  10                  15

Cys Leu Ser Val Gln Cys Leu Ser Ala Met Lys Ile Ala His Arg Gly
             20                  25                  30

Pro Asp Ala Phe Arg Phe Glu Asn Val Asn Gly Tyr Thr Asn Cys Cys
         35                  40                  45

Phe Gly Phe His Arg Leu Ala Val Val Asp Pro Leu Phe Gly Met Gln
     50                  55                  60

Pro Ile Arg Val Lys Lys Tyr Pro Tyr Leu Trp Leu Cys Tyr Asn Gly
 65                  70                  75                  80

Glu Ile Tyr Asn His Lys Lys Met Gln Gln His Phe Glu Phe Glu Tyr
                 85                  90                  95

Gln Thr Lys Val Asp Gly Glu Ile Ile Leu His Leu Tyr Asp Lys Gly
```

```
    370                 375                 380

Pro Ser Pro Glu Lys Ala Glu Glu Glu Ser Glu Arg Leu Leu Arg Glu
385                 390                 395                 400

Leu Tyr Leu Phe Asp Val Leu Arg Ala Asp Arg Thr Thr Ala Ala His
                405                 410                 415

Gly Leu Glu Leu Arg Val Pro Phe Leu Asp His Arg Phe Ser Ser Tyr
            420                 425                 430

Tyr Leu Ser Leu Pro Pro Glu Met Arg Ile Pro Lys Asn Gly Ile Glu
        435                 440                 445

Lys His Leu Leu Arg Glu Thr Phe Glu Asp Ser Asn Leu Ile Pro Lys
    450                 455                 460

Glu Ile Leu Trp Arg Pro Lys Glu Ala Phe Ser Asp Gly Ile Thr Ser
465                 470                 475                 480

Val Lys Asn Ser Trp Phe Lys Ile Leu Gln Glu Tyr Val Glu His Gln
                485                 490                 495

Val Asp Asp Ala Met Met Ala Asn Ala Ala Gln Lys Phe Pro Phe Asn
            500                 505                 510

Thr Pro Lys Thr Lys Glu Gly Tyr Tyr Tyr Arg Gln Val Phe Glu Arg
        515                 520                 525

His Tyr Pro Gly Arg Ala Asp Trp Leu Ser His Tyr Trp Met Pro Lys
    530                 535                 540

Trp Ile Asn Ala Thr Asp Pro Ser Ala Arg Thr Leu Thr His Tyr Lys
545                 550                 555                 560

Ser Ala Val Lys Ala
                565
```

<210> 5779
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5779

```
Cys Phe Ala Ser Asp Arg Ile Ser Leu His Arg Asp Leu Gly Pro Asp
 1               5                  10                  15

Thr Arg Pro Pro Glu Cys Ile Glu Gln Lys Phe Lys Arg Cys Pro Pro
            20                  25                  30

Leu Pro Thr Thr Ser Val Ile Ile Val Phe His Asn Glu Ala Trp Ser
        35                  40                  45

Thr Leu Leu Arg Thr Val His Ser Val Leu Tyr Ser Ser Pro Ala Ile
    50                  55                  60

Leu Leu Lys Glu Ile Ile Leu Val Asp Asp Ala Ser Val Asp Glu Tyr
65                  70                  75                  80

Leu His Asp Lys Leu Asp Glu Tyr Val Lys Gln Phe Ser Ile Val Lys
                85                  90                  95

Ile Val Arg Gln Arg Glu Arg Lys Gly Leu Ile Thr Ala Xaa Leu Leu
            100                 105                 110

Gly Ala Thr Val Ala Thr Ala Glu Thr Leu Thr Phe Leu Asp Ala His
        115                 120                 125

Cys Glu Cys Phe Tyr Gly Trp Leu Glu Pro Leu Leu Ala Arg Ile Ala
    130                 135                 140

Glu Asn Tyr Thr Ala Val Val Ser Pro Asp Ile Ala Ser Ile Asp Leu
145                 150                 155                 160

Asn Thr Phe Glu Phe Asn Lys Pro Ser Pro Tyr Gly Lys
                165                 170
```

<210> 5780
<211> 49
<212> PRT
<213> Homo sapiens

<400> 5780

```
Glu Lys Leu Thr Asp Leu Asn Lys Trp Gly Ser Thr Pro Cys Ser Thr
 1               5                  10                  15

Ile Gly Lys Leu Arg Ile Val Lys Met Ser Phe Leu Pro Lys Leu Ile
            20                  25                  30

Tyr Lys Ser Gln Lys Thr Phe Phe Leu Gln Thr Leu Ile Lys Val Val
        35                  40                  45

Phe
```

<210> 5781
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5781
Ser Cys Lys Lys Asp Met Lys Asn Met Asn Tyr Cys Thr Ser His Cys
1 5 10 15

Tyr Phe His Val Gln Tyr Ser Arg Xaa Ile Leu Thr Thr Ile Asp Xaa
20 25 30

Xaa Leu Lys Xaa Val Xaa Gly Lys Xaa Xaa Xaa Ile Leu Xaa Ile Xaa
35 40 45

Ile Ala Xaa Glu Arg Arg Ile Gln Gly Pro Glu Xaa Gly Ala Thr
50 55 60

<210> 5782
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5782
Met Arg Arg Val Ile Leu His Ser Pro Leu Met Ser Gly Leu Arg Val
1 5 10 15

Ala Phe Pro Asp Thr Arg Lys Thr Tyr Cys Phe Asp Ala Phe Pro Ser
20 25 30

Ile Asp Lys Ile Ser Lys Val Thr Ser Pro Val Leu Val Ile His Gly

```
        35                  40                  45

Thr Glu Asp Glu Val Ile Asp Phe Ser His Gly Leu Ala Met Tyr Glu
     50                  55                  60

Arg Cys Pro Arg Ala Val Glu Pro Leu Trp Xaa Glu Gly Ala Gly His
 65                  70                  75                  80

Asn Asp Ile Glu Leu Tyr Ala Gln Tyr Leu Glu Arg Leu Lys Gln Phe
                 85                  90                  95

Ile Ser His Glu Leu Pro Asn Ser
            100
```

<210> 5783
<211> 219
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5783

```
Ser Phe Arg Leu Xaa Cys Glu Leu Arg Arg Cys Met Xaa Gly Asn Asn
  1               5                  10                  15

Met Ser Thr Pro Leu Pro Ala Ile Val Pro Ala Ala Arg Lys Ala Thr
             20                  25                  30

Ala Ala Val Ile Phe Leu His Gly Leu Gly Xaa Thr Gly Pro Val Arg
         35                  40                  45

Pro Val Thr Leu Asn Met Asn Val Ala Met Pro Ser Trp Phe Asp Ile
     50                  55                  60

Ile Gly Leu Ser Pro Asp Ser Gln Glu Asp Glu Ser Gly Ile Lys Gln
 65                  70                  75                  80
```

```
Ala Ala Glu Asn Ile Lys Ala Leu Ile Asp Gln Glu Val Lys Asn Gly
                 85                  90                  95

Ile Pro Ser Asn Arg Ile Ile Leu Gly Gly Phe Ser Gln Gly Gly Ala
            100                 105                 110

Leu Ser Leu Tyr Thr Ala Leu Thr Thr Gln Gln Lys Leu Ala Gly Val
        115                 120                 125

Thr Ala Leu Ser Cys Trp Leu Pro Leu Arg Ala Ser Phe Pro Gln Gly
    130                 135                 140

Pro Ile Gly Gly Ala Asn Arg Asp Ile Ser Ile Leu Gln Cys His Gly
145                 150                 155                 160

Asp Cys Asp Pro Leu Val Pro Leu Met Phe Gly Ser Leu Thr Val Glu
                165                 170                 175

Lys Leu Lys Thr Leu Val Asn Pro Ala Asn Val Thr Phe Lys Thr Tyr
            180                 185                 190

Glu Gly Met Met His Ser Ser Cys Gln Gln Glu Met Met Asp Val Lys
        195                 200                 205

Gln Phe Ile Asp Lys Leu Leu Pro Pro Ile Asp
    210                 215
```

<210> 5784
<211> 326
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5784

```
Pro Arg His Gly Gln His His Arg Glu Gln Gly Asp Thr Ala Ile Leu
  1               5                  10                  15

Arg Cys Val Val Glu Asp Lys Asn Ser Lys Val Ala Trp Leu Asn Arg
             20                  25                  30
```

```
Ser Gly Ile Ile Phe Ala Gly His Asp Lys Trp Ser Leu Asp Pro Arg
         35                  40                  45

Val Glu Leu Glu Lys Arg His Ser Leu Glu Tyr Ser Leu Arg Ile Gln
     50                  55                  60

Lys Val Asp Val Tyr Asp Glu Gly Ser Tyr Thr Cys Ser Val Gln Thr
 65                  70                  75                  80

Gln His Glu Pro Lys Thr Ser Gln Val Tyr Leu Ile Val Gln Val Pro
                 85                  90                  95

Pro Lys Ile Ser Asn Ile Ser Ser Asp Val Thr Val Asn Glu Gly Ser
            100                 105                 110

Asn Val Thr Leu Val Cys Met Ala Asn Gly Xaa Pro Glu Pro Val Ile
        115                 120                 125

Thr Trp Arg His Leu Thr Pro Xaa Gly Arg Glu Phe Glu Gly Glu Glu
    130                 135                 140

Glu Tyr Leu Glu Ile Leu Gly Ile Thr Arg Glu Gln Ser Gly Lys Tyr
145                 150                 155                 160

Glu Cys Lys Ala Ala Asn Glu Val Ser Ser Ala Asp Val Lys Gln Val
                165                 170                 175

Lys Val Thr Val Asn Tyr Pro Pro Thr Ile Thr Glu Ser Lys Ser Asn
            180                 185                 190

Glu Ala Thr Thr Gly Arg Gln Ala Ser Leu Lys Cys Glu Ala Ser Ala
        195                 200                 205

Val Pro Ala Pro Asp Phe Glu Trp Tyr Arg Asp Asp Thr Arg Ile Asn
    210                 215                 220

Ser Ala Asn Gly Leu Glu Ile Lys Ser Thr Glu Gly Gln Ser Ser Leu
225                 230                 235                 240

Thr Val Thr Asn Val Thr Glu Glu His Tyr Gly Asn Tyr Thr Cys Val
                245                 250                 255

Ala Ala Asn Lys Leu Gly Val Thr Asn Ala Ser Leu Val Leu Phe Lys
            260                 265                 270

Arg Val Leu Pro Thr Ile Pro His Pro Ile Gln Glu Ile Gly Thr Thr
        275                 280                 285

Val His Phe Lys Gln Lys Gly Pro Gly Ser Val Arg Gly Ile Asn Gly
    290                 295                 300
```

Ser Ile Ser Leu Ala Val Pro Leu Trp Leu Leu Ala Ala Ser Leu Leu
305 310 315 320

Cys Leu Leu Ser Lys Cys
325

<210> 5785
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (191)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5785
Pro Thr Arg Pro Ala Glu Lys Asp Pro Gly Arg Ser Ala Pro Gly Ala
1 5 10 15

Ala Ser Ala Ala Ala Ala Leu Lys Gln Leu Gly Asp Ser Pro Ala Glu
20 25 30

Asp Lys Ser Ser Phe Lys Pro Tyr Ser Lys Gly Ser Gly Gly Gly Asp
35 40 45

Ser Arg Lys Asp Ser Gly Ser Ser Ser Val Ser Ser Thr Ser Ser Ser
50 55 60

Ser Ser Ser Ser Pro Gly Asp Lys Ala Gly Phe Xaa Val Pro Ser Ala
65 70 75 80

Ala Cys Pro Pro Phe Pro Pro His Gly Ala Pro Val Ser Ala Ser Ser

```
                85                  90                  95

Ser Ser Ser Ser Pro Gly Gly Ser Arg Gly Gly Ser Pro His His Ser
            100                 105                 110

Asp Cys Lys Asn Gly Gly Gly Val Gly Gly Gly Glu Leu Asp Lys Lys
        115                 120                 125

Asp Gln Glu Pro Lys Pro Ser Pro Glu Pro Ala Ala Val Ser Arg Gly
    130                 135                 140

Gly Gly Gly Glu Pro Gly Ala His Gly Gly Ala Glu Ser Gly Ala Ser
145                 150                 155                 160

Gly Arg Lys Ser Glu Pro Pro Ser Ala Leu Val Gly Ala Gly His Val
                165                 170                 175

Ala Pro Val Ser Pro Thr Ser Arg Ala Thr Arg Cys Ser Arg Xaa Arg
            180                 185                 190

Leu Gln His Trp Leu Pro Arg Leu His Arg Gly Arg Leu Arg Arg Xaa
        195                 200                 205

Pro Val Leu Ile Xaa Ala Trp Pro Gly
    210                 215
```

<210> 5786
<211> 69
<212> PRT
<213> Homo sapiens

<400> 5786

```
Pro Gln Lys Lys Tyr Phe Met Trp Val Phe Cys Phe Ser Leu Leu Asp
  1               5                  10                  15

Phe Met Asp Glu Gly Ile Trp Leu Thr Phe Tyr Phe Leu Met Glu Gln
             20                  25                  30

Pro Val Phe Val Asn Tyr Ser Leu Val Asn Cys Glu Ile Leu Asn Ser
         35                  40                  45

Leu Pro Ala Ile Leu Val Leu Val Ser Gly Gln Ile Tyr Ala Val Val
     50                  55                  60

Leu Met Arg Leu Val
 65
```

<210> 5787
<211> 145
<212> PRT
<213> Homo sapiens

<400> 5787
His Cys Ser Glu Gly His Ala Lys Ser Arg His Arg Ser Trp Gln Gln
1 5 10 15

Glu Gly Asp Arg Ala Ser Pro Arg His Thr Ser Pro Gly Gly Asp Ser
20 25 30

Gly Lys Glu Pro Arg Thr Gly Lys Asp Trp Val Gly Glu Gly Val Arg
35 40 45

Gly Leu Val Val Thr Gln Ser Trp Arg Gly Ala Lys Ser Thr Gly Gly
50 55 60

Tyr Pro Leu Ala Ala Ser Ala Leu Ala Val Cys Pro Phe Met Ser Gln
65 70 75 80

Thr Ala Thr Thr Met Tyr Leu Gln Trp Gly Cys Arg Asp Gly Gly Asp
85 90 95

Ser Ser Leu Thr Pro Gln Glu Leu Pro Gly Pro Lys Glu Glu Asn Ala
100 105 110

Ala Ser Phe Gln Ser Gly Leu His Pro Leu Ser Gly Ser Leu Ser Ala
115 120 125

Ser Cys Asn Ser Gly Cys Phe Ser Arg Leu Ser Ser Asn Ser Ala Pro
130 135 140

Pro
145

<210> 5788
<211> 113
<212> PRT
<213> Homo sapiens

<400> 5788
Leu Arg Arg Pro Phe Leu Met Leu Leu Leu Asp Leu Met Ser Ser Pro
1 5 10 15

Ser Pro Gln Leu Leu Val Ala Ala Ala Gln Gln Thr Leu Gly Met Gly
20 25 30

Lys Arg Arg Ser Pro Pro Gln Ala Ile Cys Leu His Leu Ala Gly Glu

```
         35                  40                  45

Val Leu Ala Val Ala Arg Gly Leu Lys Pro Ala Val Leu Tyr Asp Cys
     50                  55                  60

Asn Cys Ala Gly Ala Ser Glu Leu Gln Ser Tyr Leu Glu Glu Leu Lys
 65                  70                  75                  80

Gly Leu Gly Phe Leu Thr Phe Gly Leu His Ile Leu Glu Ile Gly Glu
                 85                  90                  95

Asn Ser Leu Ile Val Ser Pro Glu His Val Cys Gln His Leu Glu Gln
            100                 105                 110

Val
```

<210> 5789
<211> 32
<212> PRT
<213> Homo sapiens

<400> 5789

```
Lys Phe Ser Gln Ala Trp Trp His Met Pro Ile Val Pro Ala Ile Trp
  1               5                  10                  15

Val Ala Lys Val Gly Glu Leu Leu Glu Pro Gly Arg Ser Arg Leu Gln
             20                  25                  30
```

<210> 5790
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5790

```
Val Tyr Lys Met Phe Ser Met Arg Asn Gln Glu Thr Tyr Thr Gly Leu
  1               5                  10                  15

Thr Val Val Ser Tyr Met Ser Pro Gln Phe Gln Cys Ala Cys Ser Leu
             20                  25                  30

Thr Ser Pro Phe Pro Asn Pro Ser Leu Leu Gly Cys Cys Phe Lys Val
         35                  40                  45
```

```
Cys Pro Ser Pro Asn Leu Asp Phe Tyr Tyr Arg Ser Lys Ala Leu Ser
     50                  55                  60

Ile Leu Tyr
 65
```

<210> 5791
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5791

```
Trp Leu Leu Cys Pro Val Arg Val Phe Ser Ser Leu Thr Trp Val His
  1               5                  10                  15

Phe Leu Met Ala His Met Lys Phe Gly Ser Tyr Gly Leu Thr Leu Ala
             20                  25                  30

Met Val Leu Ser Tyr Gly Glu Gln His Gln Arg Pro Val Thr Cys Lys
         35                  40                  45

Leu Lys Ile Gln Cys Gln Gly Pro Ser Pro Ala Pro Leu Ile Glu Asn
     50                  55                  60

Leu Leu Ala Ile Cys Ile Phe Arg Cys Ser Arg Leu Val
 65                  70                  75
```

<210> 5792
<211> 120
<212> PRT
<213> Homo sapiens

<400> 5792

```
Tyr Val Tyr Leu Ile Ile Leu Pro Leu Ala Lys Cys Tyr Val Cys Lys
  1               5                  10                  15

Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr
             20                  25                  30

Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Arg Lys Cys
         35                  40                  45

Asn Val Arg His Thr Arg Lys Ala Asn Gln Cys Cys Lys Leu Lys Val
     50                  55                  60

Gln Phe Gln Arg Ser Leu Pro Thr Ala Gly Phe Phe Leu Tyr Phe Lys
 65                  70                  75                  80
```

```
Asn Ile Met Leu His Ile Ile Ala Ile Phe Ile Phe Trp Gly Phe Ala
                85                  90                  95

Thr Leu Ile Gln Trp Asn Gln Trp Lys Cys His Pro Ala Thr Glu Leu
            100                 105                 110

Pro Leu Leu Tyr Leu Lys Ser Phe
        115                 120
```

<210> 5793
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5793

```
Leu Leu Gly Ser Cys Leu Gln Glu Ala Met Thr Leu Asn Ser Glu Pro
  1               5                  10                  15

Tyr Ser Val Leu Thr Ser Gly Ser His Val Phe Leu Cys Gln Val Ile
             20                  25                  30

Lys Tyr Leu Val Leu Val Phe Cys Leu Xaa Pro Lys Leu Pro Leu Trp
         35                  40                  45

Val His Arg Arg Leu Gly Ser Ile Val Arg Met Ala Ile Arg Glu Tyr
     50                  55                  60

Lys Xaa Gly Phe Ser Arg Ala Trp Glu Xaa Ile Leu Glu Pro Arg Arg
```

65 70 75 80

Ala Xaa Pro Ala Leu Arg Ser Phe Gly Val Glu Met Gln Pro Trp Glu
85 90 95

Ile Trp Gly Val Ser Arg Pro Val
100

<210> 5794
<211> 36
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5794
Asp Leu Lys Arg Lys Ser Lys Ser Phe Tyr Tyr Asp Xaa Ile Pro Val
1 5 10 15

Glu Tyr Leu Lys Gly Thr Pro His Leu Asn Asn Gln Cys Lys Tyr Phe
20 25 30

Leu Ser Lys Leu
35

<210> 5795
<211> 96
<212> PRT
<213> Homo sapiens

<400> 5795
Ile Ala Arg Leu Val Gly Phe Ala Thr Cys Gly Ser Pro Arg Gly Ser
1 5 10 15

Lys Asn Gly Gly Arg Arg Gly Gly Gly Gly Pro Gly Arg Glu Trp Val
20 25 30

Glu Leu Glu Pro Gln Lys Ser Ala Glu Leu Arg Gly Arg Ala Gly Arg
35 40 45

Lys Gly Gly Gly Ala Ala Gly Ala Arg Gly His Pro Ala Ala Gly Cys
50 55 60

Ser Asp Arg Gly Lys Cys Leu Glu Asn Cys Gly Leu Arg Cys Leu Tyr

65 70 75 80

Asp Ala Val Leu Leu Glu Pro Trp Arg Lys Met Glu Leu Val Leu Gln
85 90 95

<210> 5796
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5796
Phe Gly Gly Ala Tyr Asp Gly Lys Tyr Glu Lys Thr Leu Tyr Gly His
1 5 10 15

Asn Leu Glu Ile Ser Asp Val Ala Trp Xaa Ser Asp Ser Xaa Arg Leu
20 25 30

Xaa Ser Ala Xaa Xaa Asp Lys Thr Leu Lys Leu Trp Asp Val Arg Ser
35 40 45

Gly Lys Cys Leu Lys Thr Leu Lys Gly His Ser Asn Tyr Val Phe Cys

```
     50                  55                  60

Cys Asn Phe Asn Pro Pro Ser Asn Leu Ile Ile Ser Gly Ser Phe Asp
 65                  70                  75                  80

Glu Thr Val Lys Ile Trp Glu Val Lys Thr Gly Lys Cys Leu Lys Thr
                 85                  90                  95

Leu Ser Ala His Ser Asp Pro Val Ser Ala Val His Phe Asn Cys Ser
            100                 105                 110

Gly Ser Leu Ile Val Ser Gly Ser Tyr Asp Gly Leu Cys Arg Ile Trp
        115                 120                 125

Asp Ala Ala Ser Gly Gln Cys Leu Lys Thr Leu Val Asp Asp Asp Asn
    130                 135                 140

Pro Pro Val Ser Phe Val Lys Phe Ser Pro Asn Gly Lys Tyr Ile Leu
145                 150                 155                 160

Thr Ala Thr Leu Asp Asn Thr Leu Lys Leu Trp Asp Tyr Ser Arg Gly
                165                 170                 175

Arg Cys Leu Lys Thr Tyr Thr Gly His Lys Asn Glu Lys Tyr Cys Ile
            180                 185                 190

Phe Ala Asn Phe Ser Val Thr Gly Gly Lys Trp Ile Val Ser Gly Ser
        195                 200                 205

Glu Asp Asn Arg Val Tyr Ile Trp Glu Pro Ser Asp
    210                 215                 220



<210> 5797
<211> 131
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
```

<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5797
Asp Pro Arg Val Arg Thr Arg Xaa Pro Asn Met Tyr Gln Val Val Leu
1 5 10 15

Leu Phe Val Val Val Pro Glu Leu Gln Glu His Gln Ser Lys Pro Ser
20 25 30

Arg Pro Ser Pro Arg Val Ala Asp Asn Pro Glu Glu Gly Arg Glu Pro
35 40 45

His Asn Asp Arg Pro Val Ser Met Ala Phe Gly Cys Gln Pro Glu His
50 55 60

Val Tyr Ala Glu Cys Gly Lys Thr Tyr Arg Pro Pro Pro Thr Pro Lys
65 70 75 80

Leu Phe Pro Gln Ser Thr Val Xaa Asn Thr Thr Pro Ser Phe Thr Ser
85 90 95

Gly Thr Gln Glu Xaa Leu Phe Val Phe Leu Ile Ser Ile Ser Arg Arg
100 105 110

Leu Phe Ser Thr Pro Leu Phe Leu Pro Pro Gln Phe Ala Ile Pro Leu
115 120 125

Leu Ala Leu
130

<210> 5798
<211> 239
<212> PRT
<213> Homo sapiens

<400> 5798
Gln Pro Pro Gly Thr Arg Asp Pro Ala Pro Pro Leu Ile Thr Pro Ala
1 5 10 15

Thr Pro Gln Leu Ser Ala Ala Pro Asp Ala Met Asp Pro Ala Leu Ala
20 25 30

Ala Gln Met Ser Glu Ala Val Ala Glu Lys Met Leu Gln Tyr Arg Arg
35 40 45

Asp Thr Ala Gly Trp Lys Ile Cys Arg Glu Gly Asn Gly Val Ser Val
50 55 60

```
Ser Trp Arg Pro Ser Val Glu Phe Pro Gly Asn Leu Tyr Arg Gly Glu
 65                  70                  75                  80

Gly Ile Val Tyr Gly Thr Leu Glu Glu Val Trp Asp Cys Val Lys Pro
            85                  90                  95

Ala Val Gly Gly Leu Arg Val Lys Trp Asp Glu Asn Val Thr Gly Phe
        100                 105                 110

Glu Ile Ile Gln Ser Ile Thr Asp Thr Leu Cys Val Ser Arg Thr Ser
    115                 120                 125

Thr Pro Ser Ala Ala Met Lys Leu Ile Ser Pro Arg Asp Phe Val Asp
130                 135                 140

Leu Val Leu Val Lys Arg Tyr Glu Asp Gly Thr Ile Ser Ser Asn Ala
145                 150                 155                 160

Thr His Val Glu His Pro Leu Cys Pro Pro Lys Pro Gly Phe Val Arg
                165                 170                 175

Gly Phe Asn His Pro Cys Gly Cys Phe Cys Glu Pro Leu Pro Gly Glu
        180                 185                 190

Pro Thr Lys Thr Asn Leu Val Thr Phe Phe His Thr Asp Leu Ser Gly
    195                 200                 205

Tyr Leu Pro Gln Asn Val Val Asp Ser Phe Phe Pro Arg Ser Met Thr
210                 215                 220

Arg Phe Tyr Ala Asn Leu Gln Lys Ala Val Lys Gln Phe His Glu
225                 230                 235
```

<210> 5799
<211> 66
<212> PRT
<213> Homo sapiens

<400> 5799

```
Ala Tyr Thr Thr Met Thr Glu Asn Lys Arg Leu Phe Phe Glu Thr Pro
  1               5                  10                  15

Ser Gln Lys Gln Asn Lys Thr Lys Lys Leu Asp Lys Cys Tyr Ile Asn
            20                  25                  30

Val Trp Val Val Arg Phe Tyr Phe Glu Ser Glu Val Cys Arg Tyr Ala
        35                  40                  45

Tyr Arg Phe Leu Glu Phe Thr Thr Phe Leu Phe Cys Ile Ile Asn Val
```

50 55 60

Ile Phe
65

<210> 5800
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (164)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5800
Arg His Glu Asp Phe Thr Asp Thr Ala Tyr Leu Phe Lys Ile Gln Ile
1 5 10 15

Glu Ser Leu Asn Asp Lys Leu Gln Asn Ala Lys Glu Gln Leu Arg Glu
20 25 30

Lys Glu Phe Ile Met Leu Gln Asn Glu Gln Glu Ile Ser Gln Leu Lys
35 40 45

```
Lys Glu Ile Glu Arg Thr Xaa Gln Arg Met Lys Glu Met Xaa Ser Val
     50                  55                  60

Met Lys Glu Gln Glu Gln Tyr Ile Ala Thr Gln Tyr Lys Glu Ala Ile
 65                  70                  75                  80

Asp Leu Gly Gln Glu Leu Arg Leu Thr Arg Glu Gln Val Gln Asn Ser
                 85                  90                  95

His Thr Glu Leu Ala Glu Ala Arg His Gln Gln Val Gln Ala Gln Arg
            100                 105                 110

Glu Ile Glu Arg Leu Ser Ser Glu Leu Glu Asp Met Lys Gln Leu Ser
        115                 120                 125

Lys Glu Lys Asp Ala His Gly Asn His Leu Ala Glu Glu Leu Gly Ala
    130                 135                 140

Ser Lys Gly Arg Glu Ala Tyr Leu Glu Ala Arg Met Gln Ala Glu Ile
145                 150                 155                 160

Lys Lys Leu Xaa Xaa Xaa Val Xaa Ile Ser Ser Lys Lys
                165                 170
```

<210> 5801
<211> 719
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5801

```
Phe Lys Val Ile Phe Leu Leu Gln Asp Gly Ile Val Asn Pro Thr Ile
  1               5                  10                  15

Arg Lys Asp Leu Lys Thr Gly Pro Lys Phe Tyr Cys Cys Pro Ile Glu
             20                  25                  30

Gly Cys Pro Arg Gly Pro Glu Arg Pro Phe Ser Gln Phe Ser Leu Val
         35                  40                  45

Lys Gln His Phe Met Lys Met His Ala Glu Lys Lys His Lys Cys Ser
     50                  55                  60

Lys Cys Ser Asn Ser Tyr Gly Thr Glu Trp Asp Leu Lys Arg His Ala
```

65 70 75 80

Glu Asp Cys Gly Lys Thr Phe Arg Cys Thr Cys Gly Cys Pro Tyr Ala
85 90 95

Ser Arg Thr Ala Leu Gln Ser His Ile Tyr Arg Thr Gly His Glu Ile
100 105 110

Pro Ala Glu His Arg Asp Pro Pro Ser Lys Lys Arg Lys Met Glu Asn
115 120 125

Cys Ala Gln Asn Gln Lys Leu Ser Asn Lys Thr Ile Glu Ser Leu Asn
130 135 140

Asn Gln Pro Ile Pro Arg Pro Asp Thr Gln Glu Leu Glu Ala Ser Glu
145 150 155 160

Ile Lys Leu Glu Pro Ser Phe Glu Asp Ser Cys Gly Ser Asn Thr Asp
165 170 175

Lys Gln Thr Leu Thr Thr Pro Pro Arg Tyr Pro Gln Lys Leu Leu Leu
180 185 190

Pro Lys Pro Lys Val Ala Leu Val Lys Leu Pro Val Met Gln Phe Ser
195 200 205

Val Met Pro Val Phe Val Pro Thr Ala Asp Ser Ser Ala Gln Pro Val
210 215 220

Val Leu Gly Val Asp Gln Gly Ser Ala Thr Gly Ala Val His Leu Met
225 230 235 240

Pro Leu Ser Val Gly Thr Leu Ile Leu Gly Leu Asp Ser Glu Ala Cys
245 250 255

Ser Leu Lys Glu Ser Leu Pro Leu Phe Lys Ile Ala Asn Pro Ile Ala
260 265 270

Gly Glu Pro Ile Ser Thr Gly Val Gln Val Asn Phe Gly Lys Ser Pro
275 280 285

Ser Asn Pro Leu Gln Glu Leu Gly Asn Thr Cys Gln Lys Xaa Ser Ile
290 295 300

Ser Ser Ile Asn Val Gln Thr Asp Leu Ser Tyr Ala Ser Gln Asn Phe
305 310 315 320

Ile Pro Ser Ala Gln Trp Ala Thr Ala Asp Ser Ser Val Ser Ser Cys
325 330 335

Ser Gln Thr Asp Leu Ser Phe Asp Ser Gln Val Ser Leu Pro Ile Ser

340 345 350

Val His Thr Gln Thr Phe Leu Pro Ser Ser Lys Val Thr Ser Ser Ile
355 360 365

Ala Ala Gln Thr Asp Ala Phe Met Asp Thr Cys Phe Gln Ser Gly Gly
370 375 380

Val Ser Arg Glu Thr Gln Thr Ser Gly Ile Glu Ser Pro Thr Asp Asp
385 390 395 400

His Val Gln Met Asp Gln Ala Gly Met Cys Gly Asp Ile Phe Glu Ser
405 410 415

Val His Ser Ser Tyr Asn Val Ala Thr Gly Asn Ile Ile Ser Asn Ser
420 425 430

Leu Val Ala Glu Thr Val Thr His Ser Leu Leu Pro Gln Asn Glu Pro
435 440 445

Lys Thr Leu Asn Gln Asp Ile Glu Lys Ser Ala Pro Ile Ile Asn Phe
450 455 460

Ser Ala Gln Asn Ser Met Leu Pro Ser Gln Asn Met Thr Asp Asn Gln
465 470 475 480

Thr Gln Thr Ile Asp Leu Leu Ser Asp Leu Glu Asn Ile Leu Ser Ser
485 490 495

Asn Leu Pro Ala Gln Thr Leu Asp His Arg Ser Leu Leu Ser Asp Thr
500 505 510

Asn Pro Gly Pro Asp Thr Gln Leu Pro Ser Gly Pro Ala Gln Asn Pro
515 520 525

Gly Ile Asp Phe Asp Ile Glu Glu Phe Phe Ser Ala Ser Asn Ile Gln
530 535 540

Thr Gln Thr Glu Glu Ser Glu Leu Ser Thr Met Thr Thr Glu Pro Val
545 550 555 560

Leu Glu Ser Leu Asp Ile Glu Thr Gln Thr Asp Phe Leu Leu Ala Asp
565 570 575

Thr Ser Ala Gln Ser Tyr Gly Cys Arg Gly Asn Ser Asn Phe Leu Gly
580 585 590

Leu Glu Met Phe Asp Thr Gln Thr Gln Thr Asp Leu Asn Phe Phe Leu
595 600 605

Asp Ser Ser Pro His Leu Pro Leu Gly Ser Ile Leu Lys His Ser Ser

610 615 620

Phe Ser Val Ser Thr Asp Ser Ser Asp Thr Glu Thr Gln Thr Glu Gly
625 630 635 640

Val Ser Thr Ala Lys Asn Ile Pro Ala Leu Glu Ser Lys Val Gln Leu
645 650 655

Asn Ser Thr Glu Thr Gln Thr Met Ser Ser Gly Phe Glu Thr Leu Gly
660 665 670

Ser Leu Phe Phe Thr Ser Asn Glu Thr Gln Thr Ala Met Asp Asp Phe
675 680 685

Leu Leu Ala Asp Leu Ala Trp Asn Thr Met Glu Ser Gln Phe Ser Ser
690 695 700

Val Glu Thr Gln Thr Ser Ala Glu Pro His Thr Val Ser Asn Phe
705 710 715

<210> 5802
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5802
Asn Ser Xaa Met Gln Xaa Pro Glu Trp His Phe Ala Thr Leu Ser His
1 5 10 15

```
His Cys Arg Phe Ile Thr Trp
     50                  55



<210> 5805
<211> 367
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (358)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5805
Ala Arg Gln Thr Gly Leu Glu Asp Pro Leu Arg Leu Arg Arg Ala Glu
  1               5                  10                  15

Ser Thr Arg Arg Val Leu Gly Leu Glu Leu Asn Lys Asp Arg Asp Val
             20                  25                  30

Glu Arg Ile His Gly Gly Gly Ile Asn Thr Leu Asp Ile Glu Pro Val
         35                  40                  45

Glu Gly Arg Tyr Met Leu Ser Gly Gly Ser Asp Gly Val Ile Val Leu
     50                  55                  60

Tyr Asp Leu Glu Asn Ser Ser Arg Gln Ser Tyr Tyr Thr Cys Lys Ala
 65                  70                  75                  80

Val Cys Ser Ile Gly Arg Asp His Pro Asp Val His Arg Tyr Ser Val
                 85                  90                  95

Glu Thr Val Gln Trp Tyr Pro His Asp Thr Gly Met Phe Thr Ser Ser
            100                 105                 110

Ser Phe Asp Lys Thr Leu Lys Val Trp Asp Thr Asn Thr Leu Gln Thr
        115                 120                 125

Ala Asp Val Phe Asn Phe Glu Glu Thr Val Tyr Ser His His Met Ser
    130                 135                 140

Pro Val Ser Thr Lys His Cys Leu Val Ala Val Gly Thr Arg Gly Pro
145                 150                 155                 160

Lys Val Gln Leu Cys Asp Leu Lys Ser Gly Ser Cys Ser His Ile Leu
                165                 170                 175

Gln Gly His Arg Gln Glu Ile Leu Ala Val Ser Trp Ser Pro Arg Tyr
            180                 185                 190
```

```
Asp Tyr Ile Leu Ala Thr Ala Ser Ala Asp Ser Arg Val Lys Leu Trp
        195                 200                 205

Asp Val Arg Arg Ala Ser Gly Cys Leu Ile Thr Leu Asp Gln His Asn
    210                 215                 220

Gly Lys Lys Ser Gln Ala Val Glu Ser Ala Asn Thr Ala His Asn Gly
225                 230                 235                 240

Lys Val Asn Gly Leu Cys Phe Thr Ser Asp Gly Leu His Leu Leu Thr
                245                 250                 255

Val Gly Thr Asp Asn Arg Met Arg Leu Trp Asn Ser Ser Asn Gly Glu
            260                 265                 270

Asn Thr Leu Val Asn Tyr Gly Lys Val Cys Asn Asn Ser Lys Lys Gly
        275                 280                 285

Leu Lys Phe Thr Val Ser Cys Gly Cys Ser Ser Glu Phe Val Phe Val
    290                 295                 300

Pro Tyr Gly Ser Thr Ile Ala Val Tyr Thr Val Tyr Ser Gly Glu Gln
305                 310                 315                 320

Ile Thr Met Leu Lys Gly His Tyr Lys Thr Val Asp Cys Cys Val Phe
                325                 330                 335

Gln Ser Asn Phe Gln Val Leu Tyr Ser Gly Ser Arg Asp Cys Asn Ile
            340                 345                 350

Leu Ala Trp Val Pro Xaa Leu Tyr Glu Pro Val Pro Asp Asp Gly
        355                 360                 365
```

<210> 5806
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5806
Lys Lys Xaa Gly Leu Asn Arg Pro Pro Phe Gly Ala Gln Arg Arg Val
1 5 10 15

Leu Thr Pro Arg Gly Gly Phe Pro Pro Gly Gly Xaa Lys Ile Phe Ser
20 25 30

Pro Pro Pro Gly Gly Gly Phe Pro Gly Lys Pro Pro Pro Lys Thr Gly
35 40 45

Ala Arg Xaa Phe Pro Pro Gly Gly Gly Pro Phe Pro Lys Phe Phe Phe
50 55 60

Ala Gln Asn Xaa Ser Gln Lys Ile
65 70

<210> 5807
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5807
His Gly Val Arg Arg Arg Leu Arg Val Thr Arg Gln Arg Ala Thr Ala
1 5 10 15

Leu Val Gln Ser Ala Arg Val Arg Arg Trp Lys Arg Ser Arg Arg Asn
20 25 30

Pro Gln Ile Ala Pro Phe Pro Arg Asp Leu Ser Gly Xaa Arg Ala Thr
35 40 45

Ala Gln Pro Arg Ala Pro Ala Leu Arg Pro Arg His Thr Pro Gln Ser
50 55 60

```
Ser Ser Ser Gly Ser Ala Pro Thr Pro Arg Arg Asp Gln Pro Ala Arg
 65                  70                  75                  80

Gly Gly Leu Thr Ala Pro Ser Ser Gln Glu Gly Thr Gln Arg Thr Thr
                 85                  90                  95

Glu Pro His Ser Ala Pro Arg Ser Pro Leu Trp Leu Leu Ala Ser Arg
            100                 105                 110

Pro Thr Arg Ala Ala Met Val Thr Ser Pro Pro Pro Leu
        115                 120                 125
```

<210> 5808
<211> 227
<212> PRT
<213> Homo sapiens

<400> 5808

```
Lys Met Asp Trp Gly Thr Leu Gln Thr Ile Leu Gly Gly Val Asn Lys
  1               5                  10                  15

His Ser Thr Ser Ile Gly Lys Ile Trp Leu Thr Val Leu Phe Ile Phe
             20                  25                  30

Arg Ile Met Ile Leu Val Val Ala Ala Lys Glu Val Trp Gly Asp Glu
         35                  40                  45

Gln Ala Asp Phe Val Cys Asn Thr Leu Gln Pro Gly Cys Lys Asn Val
     50                  55                  60

Cys Tyr Asp His Tyr Phe Pro Ile Ser His Ile Arg Leu Trp Ala Leu
 65                  70                  75                  80

Gln Leu Ile Phe Val Ser Thr Pro Ala Leu Leu Val Ala Met His Val
                 85                  90                  95

Ala Tyr Arg Arg His Glu Lys Lys Arg Lys Phe Ile Lys Gly Glu Ile
            100                 105                 110

Lys Ser Glu Phe Lys Asp Ile Glu Glu Ile Lys Thr Gln Lys Val Arg
        115                 120                 125

Ile Glu Gly Ser Leu Trp Trp Thr Tyr Thr Ser Ser Ile Phe Phe Arg
    130                 135                 140

Val Ile Phe Glu Ala Ala Phe Met Tyr Val Phe Tyr Val Met Tyr Asp
145                 150                 155                 160

Gly Phe Ser Met Gln Arg Leu Val Lys Cys Asn Ala Trp Pro Cys Pro
```

165 170 175

Asn Thr Val Asp Cys Phe Val Ser Arg Pro Thr Glu Lys Thr Val Phe
180 185 190

Thr Val Phe Met Ile Ala Val Ser Gly Ile Cys Ile Leu Leu Asn Val
195 200 205

Thr Glu Leu Cys Tyr Leu Leu Ile Arg Tyr Cys Ser Gly Lys Ser Lys
210 215 220

Lys Pro Val
225

<210> 5809
<211> 213
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5809
Ala Thr Val Pro Ile Arg Pro Asn Phe Thr Gly Lys Ser Ser Tyr Arg
1 5 10 15

Val Tyr Lys Leu Pro Ile Ser Gly Glu Thr Phe Asn Arg Glu Lys Phe
20 25 30

Arg Ser Gln Asp Trp Glu Asn Pro Thr Glu Arg Glu Asp Asp Ser Asp
35 40 45

Lys Tyr Cys Lys Leu Asn Leu Gln Gln Ser Gly Ser Phe Gln Tyr Tyr
50 55 60

Xaa Leu Gln Gly Asn Glu Lys Xaa Gly Gly Xaa Tyr Ile Val Val Xaa
65 70 75 80

Pro Ile Leu Arg Val Xaa Ala Asp Asn His Val Leu Pro Leu Asp Cys
85 90 95

Val Thr Leu Gln Thr Phe Leu Ala Lys Cys Leu Gly Pro Phe Asp Glu
100 105 110

Trp Glu Ser Arg Leu Arg Val Ala Lys Glu Ser Gly Tyr Asn Met Ile
115 120 125

His Phe Thr Pro Leu Gln Thr Leu Gly Leu Ser Arg Ser Cys Tyr Ser
130 135 140

Leu Ala Asn Gln Leu Glu Leu Asn Pro Asp Phe Ser Arg Pro Asn Arg
145 150 155 160

Lys Tyr Thr Trp Asn Xaa Val Gly Gln Leu Val Glu Lys Leu Lys Lys
165 170 175

Glu Trp Ile Val Phe Cys Ile Thr Asp Val Val Tyr Asn His Thr Ala
180 185 190

Ala Asn Ser Asn Cys Ile Gln Glu His Pro Glu Cys Ala Tyr Ile Leu
195 200 205

Val Ile Ser Pro His
210

<210> 5810
<211> 67
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5810
Gly Val His Tyr Cys Glu Phe Ile Ile Leu Lys Val Gly Asp Ala Lys
1 5 10 15

Ser Thr Arg Leu Lys Xaa Tyr Glu Val Phe Ser Ser Phe Asn Ser Ile
20 25 30

Leu Leu Glu Lys Asn Xaa His Asn Arg Gly Ser Phe Thr Phe Pro Gln
35 40 45

Pro Ser Arg Leu Leu Tyr Cys Asn Val Gly Lys Ile Ala Tyr Asn Lys
50 55 60

Asn Cys Ser
65

<210> 5811
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (195)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5811
Val Arg Ala Gly Pro Ala Ala Ala Gly Pro Arg Pro Gly Ala Glu Arg
1 5 10 15

5100

```
Lys Cys Trp Ser Leu Arg Ser Leu Arg Pro Leu Gly Gly Arg Cys Ala
            20                  25                  30

Trp Pro Gly Thr Ser Ala Pro Ala His Arg Pro Gly Ala Ala Glu Gly
        35                  40                  45

Arg Pro Arg Gly Pro Val Pro Ala Glu Pro Arg Pro Cys Pro Leu Ala
    50                  55                  60

Leu Leu Ser Gly His Tyr Leu Tyr Tyr His Tyr Gly Cys Asp Gly Leu
65                  70                  75                  80

Asp Asp Arg Gly Trp Gly Cys Gly Tyr Arg Thr Leu Gln Thr Leu Cys
                85                  90                  95

Ser Trp Pro Glu Gly Gln Pro Ala Gly Val Pro Gly Leu Ala Ala Val
            100                 105                 110

Gln Ala Ala Leu Glu Asp Met Gly Asp Lys Pro Pro Gly Phe Arg Gly
        115                 120                 125

Ser Arg Asp Trp Ile Gly Cys Val Glu Ala Ser Leu Cys Leu Ala His
    130                 135                 140

Phe Gly Gly Pro Gln Gly Arg Leu Cys His Val Pro Arg Gly Val Gly
145                 150                 155                 160

Leu His Gly Glu Xaa Glu Arg Leu Tyr Ser His Phe Ala Gly Gly Gly
                165                 170                 175

Gly Pro Val Met Val Gly Gly Asp Xaa Asp Ala Arg Ser Lys Ala Leu
            180                 185                 190

Leu Gly Xaa Cys Val Gly Ser Gly Thr Glu Ala Tyr Val Leu Val Leu
        195                 200                 205

Asp Pro His Tyr Trp Gly Thr Pro Lys Ser Pro Ser Glu Leu Gln Ala
    210                 215                 220

Ala Gly Trp Val Gly Trp Gln Glu Val Ser Ala Ala Phe Asp Pro Asn
225                 230                 235                 240

Ser Phe Tyr Asn Leu Cys Leu Thr Ser Leu Ser Ser Gln Gln Gln Gln
                245                 250                 255

Arg Thr Leu Asp
            260
```

<210> 5812

<211> 364
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (154)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (166)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (269)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (299)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (310)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (319)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (356)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (363)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5812
Trp Xaa Pro Arg Ala Ala Gly Ile Arg His Glu Leu Phe Gln Ala Leu

```
  1               5                  10                  15

Ile Asp Ile Gln Glu Phe Tyr Glu Val Thr Leu Leu Asp Asn Pro Lys
             20                  25                  30

Cys Ile Asp Arg Ser Lys Pro Ser Glu Pro Ile Gln Pro Val Asn Thr
         35                  40                  45

Trp Glu Ile Ser Ser Leu Pro Ser Ser Thr Val Thr Ser Glu Thr Leu
     50                  55                  60

Pro Ser Ser Leu Ser Pro Ser Val Glu Lys Tyr Arg Tyr Gln Asp Glu
 65                  70                  75                  80

Asp Thr Pro Pro Gln Glu His Ile Ser Pro Gln Ile Thr Asn Glu Val
                 85                  90                  95

Ile Gly Pro Glu Leu Val His Val Ser Glu Lys Asn Leu Ser Glu Ile
            100                 105                 110

Glu Asn Val His Gly Phe Val Ser His Ser His Ile Ser Pro Ile Lys
        115                 120                 125

Pro Thr Glu Ala Val Leu Pro Ser Pro Pro Thr Val Pro Val Ile Pro
    130                 135                 140

Val Leu Pro Val Pro Ala Glu Asn Thr Xaa Ile Leu Pro Thr Ile Pro
145                 150                 155                 160

Gln Ala Asn Pro Pro Xaa Val Leu Val Asn Thr Asp Ser Leu Glu Thr
                165                 170                 175

Pro Thr Tyr Val Asn Gly Thr Asp Ala Asp Tyr Glu Tyr Glu Glu Ile
            180                 185                 190

Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly
        195                 200                 205

Thr Asp Asn Pro His Ile Gly Asp Asp Ser Ser Ile Phe Ile Thr Lys
    210                 215                 220

Ile Ile Thr Gly Gly Ala Ala Ala Gln Asp Gly Arg Leu Arg Val Asn
225                 230                 235                 240

Asp Cys Ile Leu Arg Val Asn Glu Val Asp Val Arg Asp Val Thr His
                245                 250                 255

Ser Lys Ala Val Glu Ala Leu Lys Glu Ala Gly Ser Xaa Val Arg Leu
            260                 265                 270

Tyr Val Lys Arg Arg Lys Pro Val Ser Glu Lys Ile Met Glu Ile Lys
```

```
        275                 280                 285

Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Xaa Ile Ala Gly Gly Val
    290                 295                 300

Gly Asn Gln His Ile Xaa Gly Asp Asn Ser Ile Tyr Val Thr Xaa Ile
305                 310                 315                 320

Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp
                325                 330                 335

Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu
            340                 345                 350

Glu Ala Val Xaa Ala Leu Lys Ser Thr Ser Xaa Phe
        355                 360
```

<210> 5813
<211> 277
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5813

```
Gly Ser Cys Ser Ser Arg Cys Asp Ser Arg Asn Gln Arg His Leu Arg
  1               5                  10                  15

Val Ser Arg Lys Pro Pro Phe Val Val Ser Arg Thr Glu Gly Tyr Ile
             20                  25                  30

Gly Val Leu Ile Asp Asp Leu Thr Thr Leu Gly Thr Xaa Glu Pro Tyr
         35                  40                  45

Arg Met Phe Thr Ser Arg Val Glu Phe Arg Leu Ser Leu Arg Pro Asp
     50                  55                  60

Asn Ala Asp Ser Arg Leu Thr Leu Arg Gly Tyr Lys Asp Ala Gly Cys
 65                  70                  75                  80

Val Ser Gln Gln Arg Tyr Glu Arg Ala Cys Trp Met Lys Ser Ser Leu
                 85                  90                  95

Glu Glu Gly Ile Ser Val Leu Lys Ser Ile Glu Phe Leu Ser Ser Lys
            100                 105                 110
```

```
Trp Lys Lys Leu Ile Pro Glu Ala Ser Ile Ser Thr Ser Arg Ser Leu
        115                 120                 125

Pro Val Arg Ala Leu Asp Val Leu Lys Tyr Glu Glu Val Asp Met Asp
    130                 135                 140

Ser Leu Ala Lys Ala Val Pro Glu Pro Leu Lys Lys Tyr Thr Lys Cys
145                 150                 155                 160

Arg Glu Leu Ala Glu Arg Leu Lys Ile Glu Ala Thr Tyr Glu Ser Val
                165                 170                 175

Leu Phe His Gln Leu Gln Glu Ile Lys Gly Val Gln Gln Asp Glu Ala
            180                 185                 190

Leu Gln Leu Pro Lys Asp Leu Asp Tyr Leu Thr Ile Arg Asp Val Ser
        195                 200                 205

Leu Ser His Glu Val Arg Glu Lys Leu His Phe Ser Arg Pro Gln Thr
    210                 215                 220

Ile Gly Ala Ala Ser Arg Ile Pro Gly Val Thr Pro Ala Ala Ile Ile
225                 230                 235                 240

Asn Leu Leu Arg Phe Val Lys Thr Thr Gln Arg Arg Gln Ser Ala Met
                245                 250                 255

Asn Glu Ser Ser Lys Thr Asp Gln Tyr Leu Cys Asp Ala Asp Arg Leu
            260                 265                 270

Gln Glu Arg Glu Leu
        275
```

<210> 5814
<211> 36
<212> PRT
<213> Homo sapiens

<400> 5814

```
Ile Phe His Arg Val Leu Leu Cys Asp Leu Asn Phe Ser Leu Gly Pro
  1               5                  10                  15

Ala Ser Asp Ile Val Gly Gly Leu Ser Trp Phe Gln Glu Ile Arg Leu
             20                  25                  30

Ala Phe Ser Ser
         35
```

<210> 5815
<211> 160
<212> PRT
<213> Homo sapiens

<400> 5815
Ala Gly Ser Gln Glu Ser Ala Lys Ala Leu Met Ile Arg Glu Lys Tyr
1 5 10 15

Ala Gly Ser Pro Thr His Leu Pro Ala Asp His Ile Pro Val Pro Gly
20 25 30

Ser Ser Arg Ala Asp Thr Ala Pro Pro Glu Glu Gly Leu Pro Asp Phe
35 40 45

His Pro Pro Pro Leu Pro Gln Glu Asp Pro Tyr Cys Leu Asp Asp Ala
50 55 60

Pro Pro Asn Leu Asp Tyr Leu Val His Met Gln Gly Gly Ile Leu Phe
65 70 75 80

Val Tyr Asp Asn Lys Lys Met Leu Glu His Gln Glu Pro His Ser Leu
85 90 95

Pro Tyr Pro Asp Leu Glu Thr Tyr Thr Val Asp Met Ser His Ile Leu
100 105 110

Ala Leu Ile Thr Asp Gly Pro Thr Lys Thr Tyr Cys His Arg Arg Leu
115 120 125

Asn Phe Leu Glu Ser Lys Phe Ser Leu His Glu Met Leu Asn Glu Met
130 135 140

Ser Glu Phe Lys Glu Leu Lys Ser Asn Pro His Arg Asp Phe Tyr Asn
145 150 155 160

<210> 5816
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5816
Lys Thr Lys Tyr Leu Leu Trp Asp Lys Ile Leu Tyr Ala Tyr Leu Glu
1 5 10 15

```
Tyr Trp Glu Asp Gly Lys Glu Tyr Lys Glu Lys Asn Asn Cys Thr Pro
            20                  25                  30

His Ser Arg His Asn Leu Leu Phe Thr Ser Leu Gly Cys Ile Ser Ile
        35                  40                  45

Pro Thr Arg Trp Asn His Leu Tyr Val Tyr Leu Ile Arg Ile Met Leu
    50                  55                  60

His Thr Val Leu Phe Pro Ser
65                  70
```

<210> 5817
<211> 23
<212> PRT
<213> Homo sapiens

<400> 5817

```
Lys Lys Ala Trp Glu Pro Val Cys Phe Glu Arg Thr Asp Asp Ile Gly
  1               5                  10                  15

Arg Ala Leu Glu Val Pro Gly
            20
```

<210> 5818
<211> 155
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5818

```
Pro His Pro Thr Xaa Trp Xaa Gln Leu Glu Glu Xaa Cys Arg Arg Leu
  1               5                  10                  15

Ala Glu Val Ser Lys Pro Pro Lys Gln Arg Cys Cys Val Ala Ser Gln
             20                  25                  30

Gln Arg Asp Arg Asn His Ser Ala Thr Val Gln Thr Gly Ala Thr Xaa
         35                  40                  45

Phe Ser Asn Pro Ser Leu Ala Pro Glu Asp His Lys Glu Pro Lys Lys
     50                  55                  60

Leu Ala Gly Val His Ala Leu Gln Ala Ser Glu Leu Val Val Thr Tyr
 65                  70                  75                  80

Phe Phe Cys Gly Glu Glu Ile Pro Tyr Arg Arg Met Leu Lys Ala Gln
                 85                  90                  95

Ser Leu Thr Leu Gly His Phe Lys Glu Gln Leu Ser Lys Lys Gly Asn
            100                 105                 110

Tyr Arg Tyr Tyr Phe Lys Lys Ala Ser Asp Glu Phe Ala Cys Gly Ala
        115                 120                 125

Val Phe Glu Glu Ile Trp Glu Asp Glu Thr Val Leu Pro Met Tyr Glu
    130                 135                 140

Gly Arg Ile Leu Gly Lys Val Glu Arg Ile Asp
145                 150                 155
```

<210> 5819
<211> 317
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (116)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (245)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5819

```
Met Asn Lys Leu Asn Glu Leu Glu Lys Ile Cys Glu Ile Leu Gln Ala
  1               5                  10                  15

Glu Lys Tyr Xaa Leu Val Thr Glu Leu Asn Asp Ser Arg Ser Glu Cys
             20                  25                  30

Ile Thr Ala Thr Arg Lys Met Ala Glu Glu Val Gly Lys Leu Leu Asn
         35                  40                  45

Glu Val Lys Ile Leu Asn Asp Asp Ser Gly Leu Leu His Gly Glu Leu
     50                  55                  60

Val Glu Asp Ile Pro Gly Gly Glu Phe Gly Glu Gln Pro Asn Glu Gln
 65                  70                  75                  80

His Pro Val Ser Leu Ala Pro Leu Asp Glu Ser Asn Ser Tyr Glu His
                 85                  90                  95

Leu Thr Leu Ser Asp Lys Glu Val Gln Met His Phe Ala Glu Leu Gln
            100                 105                 110

Xaa Lys Phe Xaa Ser Leu Gln Ser Glu His Lys Ile Leu His Asp Gln
        115                 120                 125

His Cys Gln Met Ser Ser Lys Met Ser Glu Leu Gln Thr Tyr Val Asp
    130                 135                 140

Ser Leu Lys Ala Glu Asn Leu Val Leu Ser Thr Asn Leu Arg Asn Phe
145                 150                 155                 160

Gln Gly Asp Leu Val Lys Glu Met Gln Leu Gly Leu Glu Glu Gly Leu
                165                 170                 175

Val Pro Ser Leu Ser Ser Ser Cys Val Pro Asp Ser Ser Ser Leu Ser
            180                 185                 190

Ser Leu Gly Asp Ser Ser Phe Tyr Arg Ala Leu Leu Glu Gln Thr Gly
        195                 200                 205

Asp Met Ser Leu Leu Ser Asn Leu Glu Gly Ala Val Ser Ala Asn Gln
    210                 215                 220
```

```
Cys Ser Val Asp Glu Val Phe Cys Ser Ser Leu Gln Glu Glu Asn Leu
225                 230                 235                 240

Thr Arg Lys Glu Xaa Pro Ser Ala Pro Ala Lys Gly Val Glu Glu Leu
                245                 250                 255

Glu Ser Leu Cys Glu Val Tyr Arg Gln Ser Leu Glu Lys Leu Glu Glu
            260                 265                 270

Lys Met Glu Ser Gln Gly Ile Met Lys Asn Lys Glu Ile Gln Glu Leu
        275                 280                 285

Glu Gln Leu Leu Ser Ser Glu Gly Lys Ser Leu Thr Ala Leu Gly Ala
    290                 295                 300

Val Phe Val Arg His Asp Ser Gly Thr Glu Leu Thr Ala
305                 310                 315
```

<210> 5820
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5820

```
Pro Asn Trp Glu Lys Lys Cys Ile Arg Leu Ala Leu Xaa Thr Arg Glu
  1               5                  10                  15

Gln His Ile Arg Arg Asp Lys Ala Thr Ser Asn Ile Cys Thr Ala Gln
            20                  25                  30

Ala Leu Leu Ala Asn Met Ala Ala Met Phe Ala Ile Tyr His Gly Ser
        35                  40                  45

His Gly Leu Xaa His Ile Ala
    50                  55
```

<210> 5821
<211> 70
<212> PRT
<213> Homo sapiens

<400> 5821
Asn Gln Asn Lys Gly Gln Tyr Arg Lys Tyr His Gly Val Tyr Asn Lys
1 5 10 15

Leu Asn Phe Trp Leu Pro Ile Gln Thr Gly Leu Asn Gly Met Phe Ile
20 25 30

Leu Asn Lys Glu Phe Ala Met Asp Lys Ile Tyr Leu Ala Tyr Cys Glu
35 40 45

Leu Glu Val Arg Pro Ala Val Thr Leu Val Phe Pro His Ser Met Glu
50 55 60

Glu Glu Glu Arg Lys Thr
65 70

<210> 5822
<211> 465
<212> PRT
<213> Homo sapiens

<400> 5822
Ala Gly Glu Lys Leu Leu Lys Asp Cys Val Leu Leu His Leu Pro Cys
1 5 10 15

Ala Arg Ser Pro Pro Val Ser His Ser Val Thr Met Val Gln Trp Lys
20 25 30

Arg Leu Cys Gln Leu His Tyr Leu Trp Ala Leu Gly Cys Tyr Met Leu
35 40 45

Leu Ala Thr Val Ala Leu Lys Leu Ser Phe Arg Leu Lys Cys Asp Ser
50 55 60

Asp His Leu Gly Leu Glu Ser Arg Glu Ser Gln Ser Gln Tyr Cys Arg
65 70 75 80

Asn Ile Leu Tyr Asn Phe Leu Lys Leu Pro Ala Lys Arg Ser Ile Asn
85 90 95

Cys Ser Gly Val Thr Arg Gly Asp Gln Glu Ala Val Leu Gln Ala Ile
100 105 110

Leu Asn Asn Leu Glu Val Lys Lys Lys Arg Glu Pro Phe Thr Asp Thr

```
        115                 120                 125

His Tyr Leu Ser Leu Thr Arg Asp Cys Glu His Phe Lys Ala Glu Arg
    130                 135                 140

Lys Phe Ile Gln Phe Pro Leu Ser Lys Glu Glu Val Glu Phe Pro Ile
145                 150                 155                 160

Ala Tyr Ser Met Val Ile His Glu Lys Ile Glu Asn Phe Glu Arg Leu
                165                 170                 175

Leu Arg Ala Val Tyr Ala Pro Gln Asn Ile Tyr Cys Val His Val Asp
            180                 185                 190

Glu Lys Ser Pro Glu Thr Phe Lys Glu Ala Val Lys Ala Ile Ile Ser
        195                 200                 205

Cys Phe Pro Asn Val Phe Ile Ala Ser Lys Leu Val Arg Val Val Tyr
    210                 215                 220

Ala Ser Trp Ser Arg Val Gln Ala Asp Leu Asn Cys Met Glu Asp Leu
225                 230                 235                 240

Leu Gln Ser Ser Val Pro Trp Lys Tyr Phe Leu Asn Thr Cys Gly Thr
                245                 250                 255

Asp Phe Pro Ile Lys Ser Asn Ala Glu Met Val Gln Ala Leu Lys Met
            260                 265                 270

Leu Asn Gly Arg Asn Ser Met Glu Ser Glu Val Pro Pro Lys His Lys
        275                 280                 285

Glu Thr Arg Trp Lys Tyr His Phe Glu Val Val Arg Asp Thr Leu His
    290                 295                 300

Leu Thr Asn Lys Lys Lys Asp Pro Pro Pro Tyr Asn Leu Thr Met Phe
305                 310                 315                 320

Thr Gly Asn Ala Tyr Ile Val Ala Ser Arg Asp Phe Val Gln His Val
                325                 330                 335

Leu Lys Asn Pro Lys Ser Gln Gln Leu Ile Glu Trp Val Lys Asp Thr
            340                 345                 350

Tyr Ser Pro Asp Glu His Leu Trp Ala Thr Leu Gln Arg Ala Arg Trp
        355                 360                 365

Met Pro Gly Ser Val Pro Asn His Pro Lys Tyr Asp Ile Ser Asp Met
    370                 375                 380

Thr Ser Ile Ala Arg Leu Val Lys Trp Gln Gly His Glu Gly Asp Ile
```

385 390 395 400

Asp Lys Gly Ala Pro Tyr Ala Pro Cys Ser Gly Ile His Gln Arg Ala
405 410 415

Ile Cys Val Tyr Gly Ala Gly Asp Leu Asn Trp Met Leu Gln Asn His
420 425 430

His Leu Leu Ala Asn Lys Phe Asp Pro Lys Val Asp Asp Asn Ala Leu
435 440 445

Gln Cys Leu Glu Glu Tyr Leu Arg Tyr Lys Ala Ile Tyr Gly Thr Glu
450 455 460

Leu
465

<210> 5823
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5823
His Gln Pro His Gly Ser Pro Glu Leu Cys Trp Lys Val Glu Thr Gly
1 5 10 15

Arg Glu Ala Ser His Gly Ser Xaa Glu Pro Asp Pro Thr Asn Gln Leu
20 25 30

Ile Phe Lys Arg Gln Asp Gly Gly Arg Asp His Ser Arg Glu Pro Cys
35 40 45

Ser Leu Phe Leu Pro Val Ala Lys Ser Gly Ala Arg Lys Ser Leu Ser
50 55 60

Val
65

<210> 5824
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5824
Asp Leu Gly Leu Glu Gly Trp Gly Met Gly Arg Glu Gly His Ser Leu
1 5 10 15

Leu Leu His Glu Ser Asp Ile Ser Glu Thr Glu Gln Leu Pro Asp Ala
20 25 30

Trp Val Arg Asn Pro Arg Pro His Leu Leu Arg Thr Gly Ser Ser Glu
35 40 45

Ser Thr Leu Arg Glu Lys Gly Glu Asn Ile Thr Ser Val Asp Ser Pro
50 55 60

Ala Thr Thr Ala Leu Glu Glu Lys Ala Ala Ala Thr Ser Gln Arg Gly
65 70 75 80

Val Lys Asp Pro Cys Pro Arg Asn Arg Ala Ala Pro Pro Ala Leu Thr
85 90 95

Pro Leu Thr Phe Ser
100

<210> 5825
<211> 62
<212> PRT
<213> Homo sapiens

<400> 5825
His Val Ser Phe Ala Leu Leu Val Phe Tyr Val Ile Ser Phe Asn Cys
1 5 10 15

Leu Leu His Leu Thr Val Tyr Ile Ile Gln Gln Phe Thr Ser Leu Asn
20 25 30

Ser Arg Trp Lys Asn Arg Cys Gln Ser Met Lys Ile Phe Pro Ser Ile
35 40 45

Ser Lys Tyr Phe Ser Arg Ile Tyr Phe Ser Lys Gln Thr Ile
50 55 60

<210> 5826
<211> 152
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5826
Val Leu Glu Leu Asp Gln Glu Glu Leu Gln Leu Gly Arg Gly Gly Ala
1 5 10 15

Pro Arg Arg Ala Arg Ala Ala Arg Arg Gly Val Leu Leu Leu Ala His
20 25 30

Arg Glu Pro Pro Pro Ala Arg Ala Glu Ala Pro Ser Arg Gln Ala Ala
35 40 45

Cys Leu Pro Pro Leu Ser Ile Ser Pro Glu Ser Gln Pro Gly Ala Pro
50 55 60

Gly Pro Leu Pro Leu Ser Gly Trp Arg Ser Ser Arg Pro Leu Pro Val
65 70 75 80

Ser Leu Leu Leu Ser Leu Gly Ser Gln Pro Pro Leu Ser Phe Ser Trp
85 90 95

Thr Gly Ser His Pro Leu Arg Ser Pro Ser Phe Ser Ser Gly Ser Leu
100 105 110

Pro Leu Pro Leu Ala His Lys Pro Arg Ser Pro Lys Leu Leu Ser His
115 120 125

Phe Pro Xaa Pro Lys Val Pro Ala Phe Leu Leu Pro Phe Leu Cys Thr
130 135 140

Ile Pro Ile Leu Pro Phe Leu Tyr
145 150

<210> 5827
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5827
Pro Ile Glu Ile Glu Arg Cys Glu Pro Val Arg Ser Lys Leu Glu Glu
1 5 10 15

Val Gln Arg Lys Leu Gly Phe Ala Leu Ser Asp Ile Ser Val Val Ser
20 25 30

Asn Tyr Ser Ser Glu Trp Glu Leu Asp Pro Val Lys Asp Val Leu Ile
35 40 45

```
Leu Ser Ala Leu Arg Arg Met Leu Trp Ala Ala Asp Asp Phe Leu Glu
     50                  55                  60

Asp Leu Pro Phe Glu Gln Ile Gly Asn Leu Arg Glu Glu Ile Ile Asn
 65                  70                  75                  80

Cys Ala Gln Gly Lys Lys
                 85
```

<210> 5828
<211> 154
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5828

```
Ala Thr Val His Pro Ala Cys Gln Ile Phe Pro His Tyr Thr Pro Ser
  1               5                  10                  15

Val Ala Tyr Pro Trp Ser Pro Glu Ala His Pro Leu Ile Cys Gly Pro
             20                  25                  30

Pro Gly Leu Asp Lys Arg Leu Leu Pro Glu Thr Pro Gly Pro Cys Tyr
         35                  40                  45

Ser Asn Ser Gln Pro Val Trp Leu Cys Leu Xaa Pro Arg Gln Pro Leu
     50                  55                  60

Glu Pro His Pro Pro Gly Glu Gly Pro Ser Glu Trp Ser Ser Asp Thr
 65                  70                  75                  80

Ala Glu Gly Arg Pro Cys Pro Tyr Pro His Cys Gln Val Cys Arg Pro
                 85                  90                  95

Ser Leu Ala Gln Arg Arg Asn Ser Arg Ser Cys Val Asn Arg Leu Cys
            100                 105                 110

Glu Met Phe Arg Pro Ser Ser Asn Gln Glu Cys Ala Pro Asp Val Phe
        115                 120                 125

Gly Pro Tyr Leu Ala Gln Ser Pro Ala Pro Gly Lys Gly Lys Asp His
    130                 135                 140

Ser Lys His His Ser Phe Cys Arg Thr Ser
```

145 150

<210> 5829
<211> 53
<212> PRT
<213> Homo sapiens

<400> 5829
Ile Phe Phe Leu Ile Ala Leu Leu Val Lys Ser Glu Lys Lys Asn Gln
1 5 10 15

Arg Arg Phe Glu Thr Gly Ala Leu Cys Ala Arg Met Thr Lys Cys Thr
20 25 30

Ser Phe Arg Val Cys Met Leu Val Asn Ser Gln Ile Tyr Leu Tyr Phe
35 40 45

Phe Ala Ser Ile Glu
50

<210> 5830
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5830
Lys Asn Phe Glu Ser Thr Tyr Asn Leu Glu Pro Pro Arg Ser Thr Phe
1 5 10 15

Glu Leu Ser Tyr Leu Ser Gly Gln Lys Gln Cys Gly Ser Cys Met Tyr
20 25 30

Leu Ile Asp Val Ser Cys Leu Pro Lys Met Tyr Thr Ile Arg Leu Cys
35 40 45

Pro Asp His Pro Gly His Met Phe Ser Gly Pro Pro Glu Val Ser Val
50 55 60

Ser Gly His Trp Ser Leu Arg Phe Gly Ser Glu
65 70 75

<210> 5831
<211> 356
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5831
Ala Leu Leu Ser Trp Glu Met Ser Ala Ala Cys Trp Glu Glu Pro Trp
1 5 10 15

Gly Leu Pro Gly Gly Phe Ala Lys Xaa Val Leu Val Thr Gly Gly Ala
20 25 30

Gly Phe Ile Ala Ser His Met Ile Val Ser Leu Val Glu Asp Tyr Pro
35 40 45

Asn Tyr Met Ile Ile Asn Leu Asp Lys Leu Asp Tyr Cys Ala Ser Leu
50 55 60

Lys Asn Leu Glu Thr Ile Ser Asn Lys Gln Asn Tyr Lys Phe Ile Gln
65 70 75 80

Gly Asp Ile Cys Asp Ser His Phe Val Lys Leu Leu Phe Glu Thr Glu
85 90 95

Lys Ile Asp Ile Val Leu His Phe Ala Ala Gln Thr His Val Asp Leu
100 105 110

Ser Phe Val Arg Ala Phe Glu Phe Thr Tyr Val Asn Val Tyr Gly Thr
115 120 125

His Val Leu Val Ser Ala Ala His Glu Ala Arg Val Glu Lys Phe Ile
130 135 140

Tyr Val Ser Thr Asp Glu Val Tyr Gly Gly Ser Leu Asp Lys Glu Phe
145 150 155 160

Asp Glu Ser Ser Pro Lys Gln Pro Thr Asn Pro Tyr Ala Ser Ser Lys
165 170 175

Ala Ala Ala Glu Cys Phe Val Gln Ser Tyr Trp Glu Gln Tyr Lys Phe
180 185 190

Pro Val Val Ile Thr Arg Ser Ser Asn Val Tyr Gly Pro His Gln Tyr
195 200 205

Pro Glu Lys Val Ile Pro Lys Phe Ile Ser Leu Leu Gln His Asn Arg
210 215 220

Lys Cys Cys Ile His Gly Ser Gly Leu Gln Thr Arg Asn Phe Leu Tyr
225 230 235 240

```
Ala Thr Asp Val Val Glu Ala Phe Leu Thr Val Leu Lys Lys Gly Lys
                245                 250                 255

Pro Gly Glu Ile Tyr Asn Ile Gly Thr Asn Phe Glu Met Ser Val Val
            260                 265                 270

Gln Leu Ala Lys Glu Leu Ile Gln Leu Ile Lys Glu Thr Asn Ser Glu
        275                 280                 285

Ser Glu Met Glu Asn Trp Val Asp Tyr Val Asn Asp Arg Pro Thr Asn
    290                 295                 300

Asp Met Arg Tyr Pro Met Lys Ser Glu Lys Ile His Gly Leu Gly Trp
305                 310                 315                 320

Arg Pro Lys Val Pro Trp Lys Glu Gly Ile Lys Lys Thr Ile Glu Trp
                325                 330                 335

Tyr Arg Glu Asn Phe His Asn Trp Lys Asn Val Glu Lys Ala Leu Glu
            340                 345                 350

Pro Phe Pro Val
        355
```

<210> 5832
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5832

```
Ala Lys Thr Ser His Leu Glu Phe Gly Lys Ile Arg Ile Ser Gln Val
  1               5                  10                  15

Glu His Leu Leu Asn Ala Arg Ile Val Ser Met His Phe Lys Ser Ile
             20                  25                  30

Phe Asn Leu Tyr Tyr Ser Leu Ile Ile Gly Ile Met Thr Pro Glu Gln
         35                  40                  45

Arg Gln Leu Ser
     50
```

<210> 5833
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5833
Thr Arg Met Pro Ser Lys Ala Ala Leu Met Glu Glu Ala Lys Leu Met
1 5 10 15

Ala Ser Leu Trp His Leu Ala Ala Met Ala Phe Ile Thr Tyr Val Leu
20 25 30

Leu Ala Gly Met Ala Leu Gly Ile Gln Lys Arg Ser Val Pro Ser Pro
35 40 45

Ser Leu Thr Leu Pro Ser Leu
50 55

<210> 5834
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<210> 5835
<211> 57
<212> PRT
<213> Homo sapiens

<400> 5835
Ala Asp Leu Arg Glu Gln Arg Gly Leu Arg Gln Ala Thr Asp His Gln
1 5 10 15

Glu Leu Val Glu Ile Pro Thr Arg Pro Leu Leu Thr Lys Leu Ser Leu
20 25 30

Ile Thr Ala Pro Arg Arg Gly Glu Arg Ala Pro Val Pro Leu Arg Ala
35 40 45

Gly Gly His Ser Thr Gly Asp Thr Ala
50 55

<210> 5836
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5836
Ile Ala His Tyr Phe Leu Tyr Arg Tyr Leu Lys Lys Thr Val Tyr Gly
1 5 10 15

Leu His Phe Phe Xaa Cys His Ile Gly Leu Met Leu Leu Ser Asn Gly
20 25 30

Gly Ala Arg Ser His His Ser Leu Ser Pro Gln Ile Asp Phe Val Pro
35 40 45

Pro Ser Asn Lys Leu Ser Lys Ser
50 55

<210> 5837
<211> 555
<212> PRT
<213> Homo sapiens

<400> 5837

```
Gln Tyr Arg Ser Glu Phe Pro Gly Arg Pro Thr Arg Pro Ala Val Thr
 1               5                  10                  15

Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser Asp Ser Asp Lys
            20                  25                  30

Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro Ala Leu Lys Met
        35                  40                  45

Ser Val Ser Lys Arg Ala Arg Lys Ala Ser Ser Asp Leu Asp Gln Ala
    50                  55                  60

Ser Val Ser Pro Ser Glu Glu Glu Asn Ser Glu Ser Ser Ser Glu Ser
65                  70                  75                  80

Glu Lys Thr Ser Asp Gln Asp Phe Thr Pro Glu Lys Lys Ala Ala Val
                85                  90                  95

Arg Ala Pro Arg Arg Gly Pro Leu Gly Gly Arg Lys Lys Lys Lys Ala
            100                 105                 110

Pro Ser Ala Ser Asp Ser Asp Ser Lys Ala Asp Ser Asp Gly Ala Lys
        115                 120                 125

Pro Glu Pro Val Ala Met Ala Arg Ser Ala Ser Ser Ser Ser Ser Ser
    130                 135                 140

Ser Ser Ser Ser Asp Ser Asp Val Ser Val Lys Lys Pro Pro Arg Gly
145                 150                 155                 160

Arg Lys Pro Ala Glu Lys Pro Leu Pro Lys Pro Arg Gly Arg Lys Pro
                165                 170                 175

Lys Pro Glu Arg Pro Pro Ser Ser Ser Ser Ser Asp Ser Asp Ser Asp
            180                 185                 190

Glu Val Asp Arg Ile Ser Glu Trp Lys Arg Arg Asp Glu Ala Arg Arg
        195                 200                 205

Arg Glu Leu Glu Ala Arg Arg Arg Arg Glu Gln Glu Glu Glu Leu Arg
    210                 215                 220

Arg Leu Arg Glu Gln Glu Lys Glu Glu Lys Glu Arg Arg Arg Glu Arg
225                 230                 235                 240

Ala Asp Arg Gly Glu Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly Asp
                245                 250                 255

Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys Gly
            260                 265                 270
```

```
Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala Glu
        275                 280                 285

Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser Ser
    290                 295                 300

Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg Pro
305                 310                 315                 320

Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg Lys
                325                 330                 335

Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys Glu
            340                 345                 350

Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys Phe
        355                 360                 365

Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala Leu
    370                 375                 380

Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys Asn
385                 390                 395                 400

Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala Asn
                405                 410                 415

Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys Ser
            420                 425                 430

Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys Ala
        435                 440                 445

Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu Leu
    450                 455                 460

Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser Thr
465                 470                 475                 480

Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly Glu
                485                 490                 495

Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu Gly
            500                 505                 510

Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu Gly
        515                 520                 525

Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg Ala
    530                 535                 540
```

```
Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
545                 550                 555



<210> 5838
<211> 227
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5838
Gln His Pro Gln Pro Ala Asp Ser Arg Gln Thr Gly Ser Ser Lys Ala
  1               5                  10                  15

Leu Ala Gln Thr Leu Pro Pro Pro Thr Xaa Ala Gly Glu Ser Asn Ser
             20                  25                  30

Val Thr Cys Asn Cys Gly Gln Glu Ala Val Leu Leu Thr Val Arg Lys
         35                  40                  45

Glu Gly Pro Asn Arg Gly Arg Gln Phe Phe Lys Cys Asn Gly Gly Ser
     50                  55                  60

Cys Asn Phe Phe Leu Trp Ala Asp Ser Pro Asn Pro Gly Ala Gly Gly
 65                  70                  75                  80

Pro Pro Ala Leu Ala Tyr Arg Pro Leu Gly Ala Ser Leu Gly Cys Pro
                 85                  90                  95

Pro Gly Pro Gly Ile His Leu Gly Gly Phe Gly Asn Pro Gly Asp Gly
            100                 105                 110

Ser Gly Ser Gly Thr Ser Cys Leu Cys Ser Gln Pro Ser Val Thr Arg
        115                 120                 125

Thr Val Gln Lys Asp Gly Pro Asn Lys Gly Arg Gln Phe His Thr Cys
    130                 135                 140

Ala Lys Pro Arg Glu Gln Gln Cys Gly Phe Phe Gln Trp Val Asp Glu
145                 150                 155                 160
```

```
Asn Thr Ala Pro Gly Thr Ser Gly Ala Pro Ser Trp Thr Gly Asp Arg
                165                 170                 175

Gly Arg Thr Leu Glu Ser Glu Ala Arg Ser Lys Arg Pro Arg Ala Gly
            180                 185                 190

Ser Ser Asp Met Gly Ser Thr Ala Lys Lys Pro Arg Lys Cys Ser Xaa
        195                 200                 205

Cys His Gln Pro Gly Thr His Pro Ser Leu Leu Ser Ser Glu Gln Met
    210                 215                 220

Ser Ser Gly
225
```

<210> 5839
<211> 254
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5839

```
Gly Arg Ser Arg Val Ser Ser Arg Lys Arg His Pro Ala Gly Pro Pro
  1               5                  10                  15

Gly Glu Ala Gln Glu Gly Ser Ala Lys Ala Glu Arg Pro Gly Leu Gln
             20                  25                  30

Asn Met Glu Leu Ala Pro Val Gln Arg Lys Ile Glu Ala Arg Ser Ala
         35                  40                  45

Glu Asp Ser Phe Thr Gly Phe Val Arg Thr Leu Tyr Phe Ala Asp Thr
     50                  55                  60

Tyr Leu Lys Asp Ser Ser Arg His Cys Pro Ser Leu Trp Ala Gly Thr
 65                  70                  75                  80

Asn Gly Gly Thr Ile Tyr Ala Phe Ser Leu Arg Val Pro Pro Ala Glu
                 85                  90                  95

Arg Arg Met Asp Glu Pro Val Arg Ala Glu Gln Ala Lys Glu Ile Gln
            100                 105                 110

Leu Met His Arg Ala Pro Val Val Gly Ile Leu Val Leu Asp Gly His
```

```
        115                 120                 125

Ser Val Pro Leu Pro Glu Pro Leu Glu Val Ala His Asp Leu Ser Lys
    130                 135                 140

Ser Pro Asp Met Gln Gly Ser His Gln Leu Leu Val Val Ser Glu Glu
145                 150                 155                 160

Gln Phe Lys Val Phe Thr Leu Pro Lys Val Ser Xaa Lys Leu Lys Leu
                165                 170                 175

Lys Leu Thr Ala Leu Glu Gly Ser Arg Val Arg Arg Val Ser Val Ala
            180                 185                 190

His Phe Gly Ser Arg Arg Ala Glu Asp Tyr Gly Glu His His Leu Ala
        195                 200                 205

Val Leu Thr Asn Leu Gly Asp Ile Gln Val Val Ser Leu Pro Leu Leu
    210                 215                 220

Lys Pro Gln Val Arg Tyr Ser Cys Ile Arg Arg Glu Asp Val Met Ala
225                 230                 235                 240

Ser Pro Pro Ala Ser Ser Pro Asn Met Ala Lys Ala Ser Thr
                245                 250
```

<210> 5840
<211> 88
<212> PRT
<213> Homo sapiens

<400> 5840

```
Gln Pro Ile His Thr Arg Pro Gly Leu Phe Ile Tyr Thr Ala Ala His
  1               5                  10                  15

Ser Ser Leu Gln Leu His Met Leu Tyr Leu Asp His Ser Glu Ala Asn
            20                  25                  30

Ser Glu His Tyr Ile Ile Leu Ser Ile Asn Ile Ser Asn Ile Leu Lys
        35                  40                  45

Tyr Thr Ile Gly Ile Gln Ala Ser Pro Ile Val Pro Gln Met Phe Gly
    50                  55                  60

Cys Phe Cys Ser Trp Ile Val Cys Ile Arg Ile Gln Ala Arg Pro Ile
65                  70                  75                  80

Tyr Cys Ile Tyr Leu Lys Cys Leu
                85
```

<210> 5841
<211> 98
<212> PRT
<213> Homo sapiens

<400> 5841
Ser Phe Thr Gly Gln Ser Arg Thr Lys Ile Val Tyr Ser Met Tyr Ser
1 5 10 15

Arg Lys Ala Ala Glu Glu Val Lys Arg Glu Leu Ile Lys Leu Lys Val
20 25 30

Asn Tyr Tyr Ile Leu Glu Glu Ser Trp Cys Val Arg Arg Ser Lys Pro
35 40 45

Gly Cys Ser Met Pro Glu Ile Trp Asp Val Glu Asp Pro Ala Asn Ala
50 55 60

Gly Lys Thr Pro Leu Cys Asn Leu Leu Val Lys Asp Ser Lys Pro His
65 70 75 80

Phe Thr Thr Val Phe Gln Asn Ser Val Tyr Lys Val Leu Glu Val Val
85 90 95

Lys Glu

<210> 5842
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5842
Arg Ala Glu Phe Gly Thr Xaa Ser Leu Gln Ala Pro Ser Arg Glu Glu
1 5 10 15

Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser Leu Lys Val
20 25 30

Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn Tyr Lys Pro
35 40 45

```
Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu Pro His Met
     50                  55                  60

Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser Phe Ala Lys
 65                  70                  75                  80

Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln Ile Ser Cys
                 85                  90                  95
```

<210> 5843
<211> 158
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5843

```
Val Thr Ala Xaa Ser Gly Ile Leu Asp Val Thr Val Val Tyr Leu Asn
  1               5                  10                  15

Pro Glu Gln His Cys Cys Gln Glu Ser Ser Asp Glu Glu Ala Cys Pro
             20                  25                  30

Glu Asp Lys Gly Pro Gln Asp Pro Gln Ala Leu Ala Leu Asp Thr Gln
         35                  40                  45

Ile Pro Ala Thr Pro Gly Pro Lys Pro Leu Val Arg Thr Ser Arg Glu
     50                  55                  60

Pro Gly Lys Asp Val Thr Thr Ser Gly Tyr Ser Ser Val Ser Thr Ala
 65                  70                  75                  80

Ser Pro Thr Ser Ser Val Asp Gly Gly Leu Gly Ala Leu Pro Gln Pro
                 85                  90                  95

Thr Ser Val Leu Ser Leu Asp Ser Asp Ser His Thr Gln Pro Cys His
            100                 105                 110

His Gln Ala Arg Lys Ser Cys Leu Gln Cys Arg Pro Pro Ser Pro Pro
        115                 120                 125

Glu Ser Ser Val Pro Gln Gln Gln Val Lys Arg Ile Asn Leu Cys Ile
```

```
    130                 135                 140

His Ser Glu Glu Glu Asp Met Asn Leu Gly Leu Val Arg Leu
145                 150                 155



<210> 5844
<211> 71
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5844
Gly Cys Leu Asn Asp Glu His Leu Glu Glu Leu Gly Gly Ile Leu Lys
  1               5                  10                  15

Ala Lys Leu Glu Gly His Phe Lys Asn Gln Glu Leu Arg Gln Val Lys
             20                  25                  30

Arg Gln Glu Glu Asn Tyr Asp Gln Gln Val Glu Met Ser Leu Xaa Asp
         35                  40                  45

Glu Asp Glu Cys Asp Val Tyr Ile Leu Thr Lys Val Ser Asp Ile Xaa
     50                  55                  60

His Ser Leu Phe Lys Tyr Leu
 65                  70



<210> 5845
<211> 137
<212> PRT
<213> Homo sapiens

<400> 5845
Arg Gly Gln His Gln Leu Glu Gly Gly Leu Gly Gly Phe Gln Gly Leu
  1               5                  10                  15

His Gln Val Arg Arg Pro Cys Pro Glu Asp Trp Leu Leu Tyr Gly Arg
             20                  25                  30
```

```
Lys Cys Tyr Phe Phe Ser Glu Glu Pro Arg Asp Trp Asn Thr Gly Arg
         35                  40                  45

Gln Tyr Cys His Thr His Glu Ala Val Leu Ala Val Ile Gln Ser Gln
     50                  55                  60

Lys Glu Leu Glu Phe Met Phe Lys Phe Thr Arg Arg Glu Pro Trp Ile
 65                  70                  75                  80

Gly Leu Arg Arg Val Gly Asp Glu Phe His Trp Val Asn Gly Asp Pro
                 85                  90                  95

Phe Asp Pro Asp Thr Phe Thr Ile Ala Gly Pro Gly Glu Cys Val Phe
            100                 105                 110

Val Glu Pro Thr Arg Leu Val Ser Thr Glu Cys Leu Met Thr Arg Pro
        115                 120                 125

Trp Val Cys Ser Lys Met Ala Tyr Thr
    130                 135
```

<210> 5846
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (130)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5846

```
Gly Ala Arg Pro Gly Ala Glu Gly Ala Arg Ala Phe Gly Gly Ser Ile
  1               5                  10                  15

Gly Leu Gln Ala Glu Glu Gln Gly Pro Cys His Leu Pro Gly Gly Arg
             20                  25                  30

Ser His Leu Cys Ser Gln Val Arg Gly Ser Ser Gly Gly Glu Thr Glu
         35                  40                  45

Cys Ala Ser Trp Glu Ala Pro Arg Ile Val Gly Gly Glu Leu Ala Ala
     50                  55                  60
```

```
Ser Leu Ala Cys Pro Leu Phe Pro Val Pro Pro Ser Arg Leu Ala Pro
 65                  70                  75                  80

Ala Pro Ala Trp Glu Asp Pro His Leu Arg Leu Gln Cys Leu Phe Pro
                85                  90                  95

Leu Glu Ala Leu Pro Ser Ala Arg Gly Pro Arg Ile Leu Pro Trp Pro
            100                 105                 110

Ser Glu His Arg Leu Gly Arg Pro Xaa Asn Ser Ser Val Lys Pro Gly
        115                 120                 125

Ile Xaa
    130
```

<210> 5847
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5847

```
Glu Phe Gly Arg Gly Glu Ile Ser Arg Gly Pro Asp Val His Leu Thr
  1               5                  10                  15

His Gly Leu Glu Pro Lys Asp Val Asn Arg Glu Phe Arg Leu Thr Glu
             20                  25                  30

Ser Ser Thr Cys Glu Pro Ser Thr Val Ala Ala Val Leu Ser Arg Ala
         35                  40                  45

Gln Gly Cys Arg Ser Pro Ser Ala Pro Asp Val Arg Thr Gly Ser Phe
     50                  55                  60

Ser His Ser Ala Thr Asp Gly Ser Val Gly Leu Ile Gly Val Pro Glu
 65                  70                  75                  80

Lys Lys Val Ala Glu Lys Gln Ala Ser Thr Glu Leu Glu Ala Ala Ser
                85                  90                  95
```

```
Phe Pro Ala Xaa Met Tyr Ser Glu Pro Leu Arg Gln Phe Arg Asp Ser
            100                 105                 110

Ser Val Gly Asp Gln Asn Ala Gln Val Cys Gln Thr Asn Ser Arg Thr
        115                 120                 125

Xaa Cys Asn Asn Ser Gly Asp His Thr Pro Trp Ile
    130                 135                 140
```

<210> 5848
<211> 194
<212> PRT
<213> Homo sapiens

<400> 5848

```
Leu Leu Ser Asn Lys Met Asn Phe Val Leu Val Lys Val Arg Tyr Asp
  1               5                  10                  15

Val Val Gly Met Phe Trp Asn Met Phe Phe Gln Val Ala Ser Gly Gly
             20                  25                  30

Gly Gly Val Gly Asp Gly Val Gln Glu Pro Thr Thr Gly Asn Trp Arg
         35                  40                  45

Gly Met Leu Lys Thr Ser Lys Ala Glu Glu Leu Leu Ala Glu Glu Lys
     50                  55                  60

Ser Lys Pro Ile Pro Ile Met Pro Ala Ser Pro Gln Lys Gly His Ala
 65                  70                  75                  80

Val Asn Leu Leu Asp Val Pro Val Pro Val Ala Arg Lys Leu Ser Ala
                 85                  90                  95

Arg Glu Gln Arg Asp Cys Glu Val Ile Glu Arg Leu Ile Lys Ser Tyr
            100                 105                 110

Phe Leu Ile Val Arg Lys Asn Ile Gln Asp Ser Val Pro Lys Ala Val
        115                 120                 125

Met His Phe Leu Val Asn His Val Lys Asp Thr Leu Gln Ser Glu Leu
    130                 135                 140

Val Gly Gln Leu Tyr Lys Ser Ser Leu Leu Asp Asp Leu Leu Thr Glu
145                 150                 155                 160

Ser Glu Asp Met Ala Gln Arg Arg Lys Glu Ala Ala Asp Met Leu Lys
                165                 170                 175
```

Ala Leu Gln Gly Ala Ser Gln Ile Ile Ala Glu Ile Arg Glu Thr His
180 185 190

Leu Trp

<210> 5849
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5849
Leu Phe Lys Val Ser Asn Val His Pro Gly Leu Gly Ile Thr Asn Val
1 5 10 15

Gly Val Lys Met Pro Thr Lys Gly Phe Ser Ala Leu Glu Val Leu Arg
20 25 30

Ser Pro Ile Cys Ile Lys Ala Asp Pro Phe Cys Lys Asp Leu Ser Phe
35 40 45

Arg Thr Phe Ser Val Leu Leu Val Arg Thr Leu Glu Val Ile Leu Ile
50 55 60

Ile Ser Thr Asp Ser Leu Thr Ala Glu Ala Thr
65 70 75

<210> 5850
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (199)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (226)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (230)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (231)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5850

```
Cys Xaa Phe Xaa Asn Ala Gly Val Lys Gln Ser Ala Leu Leu Gly Leu
  1               5                  10                  15

Lys Asp Leu Leu Ser Gln Tyr Pro Phe Ile Ile Asp Ala His Leu Ser
             20                  25                  30

Asn Ile Leu Ser Glu Val Thr Ala Val Phe Thr Asp Lys Asp Ala Asn
         35                  40                  45

Val Arg Leu Ala Ala Val Gln Leu Leu Gln Phe Leu Ala Pro Lys Ile
     50                  55                  60

Arg Ala Glu Gln Ile Ser Pro Phe Phe Pro Leu Val Ser Ala His Leu
 65                  70                  75                  80

Ser Ser Ala Met Thr His Ile Thr Glu Gly Ile Gln Glu Asp Ser Leu
                 85                  90                  95

Lys Val Leu Asp Ile Leu Leu Glu Gln Tyr Pro Ala Leu Ile Thr Gly
            100                 105                 110

Arg Ser Ser Ile Leu Leu Lys Asn Phe Val Glu Leu Ile Ser His Gln
        115                 120                 125

Gln Leu Ser Lys Gly Leu Ile Asn Arg Asp Arg Ser Gln Ser Trp Ile
    130                 135                 140

Leu Ser Val Asn Pro Asn Arg Arg Leu Thr Ser Gln Gln Trp Arg Leu
145                 150                 155                 160
```

```
Lys Val Leu Val Arg Leu Ser Lys Phe Leu Gln Ala Leu Ala Asp Gly
                165                 170                 175

Ser Ser Arg Leu Arg Glu Ser Glu Gly Leu Gln Glu Gln Lys Glu Asn
            180                 185                 190

Pro His Ala Thr Ser Asn Xaa Ile Phe Ile Asn Trp Lys Glu His Ala
        195                 200                 205

Asn Asp Gln Gln His Ile Gln Gly Tyr Glu Asn Gly Gly Ser Gln Ala
    210                 215                 220

Lys Xaa Gly Pro Xaa Xaa Xaa Thr Asp Leu Val Gly Gly Leu Met Gly
225                 230                 235                 240

Gly
```

<210> 5851
<211> 260
<212> PRT
<213> Homo sapiens

<400> 5851

```
Asn Ser Arg Thr Asp Val Arg Met Glu Thr Asp Leu Glu Val Ile Ile
  1               5                  10                  15

Lys Asp Asn Ser Leu Val Leu Thr Pro Ser His Ile Lys Ala Tyr Met
             20                  25                  30

Leu Met Thr Leu Gln Gly Leu Glu Tyr Leu His Gln His Trp Ile Leu
         35                  40                  45

His Arg Asp Leu Lys Pro Asn Asn Leu Leu Leu Asp Glu Asn Gly Val
     50                  55                  60

Leu Lys Leu Ala Asp Phe Gly Leu Ala Lys Ser Phe Gly Ser Pro Asn
 65                  70                  75                  80

Arg Ala Tyr Thr His Gln Val Val Thr Arg Trp Tyr Arg Ala Pro Glu
                 85                  90                  95

Leu Leu Phe Gly Ala Arg Met Tyr Gly Val Gly Val Asp Met Trp Ala
            100                 105                 110

Val Gly Cys Ile Leu Ala Glu Leu Leu Leu Arg Val Pro Phe Leu Pro
        115                 120                 125

Gly Asp Ser Asp Leu Asp Gln Leu Thr Arg Ile Phe Glu Thr Leu Gly
```

```
    130                 135                 140

Thr Pro Thr Glu Glu Gln Trp Pro Asp Met Cys Ser Leu Pro Asp Tyr
145                 150                 155                 160

Val Thr Phe Lys Ser Phe Pro Gly Ile Pro Leu His His Ile Phe Ser
                165                 170                 175

Ala Ala Gly Asp Asp Leu Leu Asp Leu Ile Gln Gly Leu Phe Leu Phe
            180                 185                 190

Asn Pro Cys Ala Arg Ile Thr Ala Thr Gln Ala Leu Lys Met Lys Tyr
        195                 200                 205

Phe Ser Asn Arg Pro Gly Pro Thr Pro Gly Cys Gln Leu Pro Arg Pro
    210                 215                 220

Asn Cys Pro Val Glu Thr Leu Lys Glu Gln Ser Asn Pro Ala Leu Ala
225                 230                 235                 240

Ile Lys Arg Lys Arg Thr Glu Ala Leu Glu Gln Gly Gly Leu Pro Lys
                245                 250                 255

Lys Leu Ile Phe
            260
```

<210> 5852
<211> 94
<212> PRT
<213> Homo sapiens

<400> 5852

```
Ser Ser Tyr Arg Ser Lys Ala Tyr Thr His Thr Lys Ile Thr Val Pro
  1               5                  10                  15

Arg Glu Arg Val Cys Val Ser Val Arg Val Ser Val Cys Ala Arg Ala
             20                  25                  30

Arg Ser Trp Pro Asn Val Arg Thr Leu His Lys Gly Gly Arg Ser Ser
         35                  40                  45

Tyr Arg Leu Phe Asn Val Arg Glu Thr Ile Phe Leu Leu Phe Gln Leu
     50                  55                  60

Tyr Gln Ile Leu Val Pro Gln His Arg Asn Asp Ser Glu Ser Gln Thr
 65                  70                  75                  80

Lys Cys Ile Ile Cys Ser Ile Leu Ile Leu Leu Leu His Ser
                 85                  90
```

<210> 5853
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5853
Cys Cys Leu Cys Gly Leu Trp Val Trp Thr Asn Pro Val Val Ala Cys
1 5 10 15

Pro Pro Glu Pro Pro Pro Ser Gln Gln Arg His Gln Gly Ala Leu Gly
20 25 30

Ser Pro Lys Thr Tyr His Ser Arg Val Pro Gln Ala Pro Gly Cys Cys
35 40 45

Phe Leu Leu Pro Val Pro Gln Pro His Ala Pro Phe Tyr Ile Leu Cys
50 55 60

Val Ser Lys Gly Trp Lys Asn Lys Thr Gln Leu Lys Ile Lys Lys Lys
65 70 75 80

Lys Lys Lys Lys Lys Lys Lys Lys Lys
85

<210> 5854
<211> 544
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (266)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (320)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (321)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (527)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (528)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (529)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5854

```
Leu Ser Trp Pro Val Val Ala Asn Gln Val Leu Lys Leu Gly Asn Leu
  1               5                  10                  15

Glu Phe Lys Pro Glu Ser Arg Val Asn Gly Leu Asp Glu Ser Lys Ile
             20                  25                  30

Lys Asp Lys Asn Glu Leu Lys Glu Ile Cys Glu Leu Thr Gly Ile Asp
         35                  40                  45

Gln Ser Val Leu Glu Arg Ala Phe Ser Phe Arg Thr Val Glu Ala Lys
     50                  55                  60

Gln Glu Lys Val Ser Thr Thr Leu Asn Val Ala Gln Ala Tyr Tyr Ala
 65                  70                  75                  80

Arg Asp Ala Leu Ala Lys Asn Leu Tyr Ser Arg Leu Phe Ser Trp Leu
                 85                  90                  95

Val Asn Arg Ile Asn Glu Ser Ile Lys Ala Gln Thr Lys Val Arg Lys
            100                 105                 110

Lys Val Met Gly Val Leu Asp Ile Tyr Gly Phe Glu Ile Phe Glu Asp
        115                 120                 125

Asn Ser Phe Glu Gln Phe Ile Ile Asn Tyr Cys Asn Glu Lys Leu Gln
    130                 135                 140

Gln Ile Phe Ile Glu Leu Thr Leu Lys Glu Glu Gln Glu Glu Tyr Ile
145                 150                 155                 160

Arg Glu Asp Ile Glu Trp Thr His Ile Asp Tyr Phe Asn Asn Ala Ile
                165                 170                 175

Ile Cys Asp Leu Ile Glu Asn Asn Thr Asn Gly Ile Leu Ala Met Leu
            180                 185                 190

Asp Glu Glu Cys Leu Arg Pro Gly Thr Val Thr Asp Glu Thr Phe Leu
```

195 200 205

Glu Lys Leu Asn Gln Val Cys Ala Thr His Gln His Phe Glu Ser Arg
210 215 220

Met Ser Lys Cys Ser Arg Phe Leu Asn Asp Thr Ser Leu Pro His Ser
225 230 235 240

Cys Phe Arg Ile Gln His Tyr Ala Gly Lys Val Leu Tyr Gln Val Glu
245 250 255

Gly Phe Val Asp Lys Asn Asn Asp Leu Xaa Tyr Arg Asp Leu Ser Gln
260 265 270

Ala Met Trp Lys Ala Ser His Ala Leu Ile Lys Ser Leu Phe Pro Glu
275 280 285

Gly Asn Pro Ala Lys Ile Asn Leu Lys Arg Pro Pro Thr Ala Gly Ser
290 295 300

Gln Phe Lys Ala Ser Val Ala Thr Leu Met Lys Asn Leu Gln Thr Xaa
305 310 315 320

Xaa Pro Asn Tyr Ile Arg Cys Ile Lys Pro Asn Asp Lys Lys Ala Ala
325 330 335

His Ile Phe Asn Glu Ala Leu Val Cys His Gln Ile Arg Tyr Leu Gly
340 345 350

Leu Leu Glu Asn Val Arg Val Arg Arg Ala Gly Tyr Ala Phe Arg Gln
355 360 365

Ala Tyr Glu Pro Cys Leu Glu Arg Tyr Lys Met Leu Cys Lys Gln Thr
370 375 380

Trp Pro His Trp Lys Gly Pro Ala Arg Ser Gly Val Glu Val Leu Phe
385 390 395 400

Asn Glu Leu Glu Ile Pro Val Glu Glu Tyr Ser Phe Gly Arg Ser Lys
405 410 415

Ile Phe Ile Arg Asn Pro Arg Thr Leu Phe Lys Leu Glu Asp Leu Arg
420 425 430

Lys Gln Arg Leu Glu Asp Leu Ala Thr Leu Ile Gln Lys Ile Tyr Arg
435 440 445

Gly Trp Lys Cys Arg Thr His Phe Leu Leu Met Lys Lys Ser Gln Ile
450 455 460

Val Ile Ala Ala Trp Tyr Arg Arg Tyr Ala Gln Gln Lys Arg Tyr Gln

```
465                 470                 475                 480

Gln Thr Lys Ser Ser Ala Leu Val Ile Gln Ser Tyr Ile Arg Gly Trp
                485                 490                 495

Lys Ala Arg Lys Ile Leu Arg Glu Leu Lys His Gln Lys Arg Cys Lys
            500                 505                 510

Glu Ala Val Thr Thr Ile Ala Ala Tyr Trp His Gly Thr Gln Xaa Xaa
        515                 520                 525

Xaa Lys Asn Gln Glu Ile Leu Gln Ser Gln Cys Trp Lys Arg Lys Ser
    530                 535                 540
```

<210> 5855
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5855

```
Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser
  1               5                  10                  15

Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro
             20                  25                  30

Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu
         35                  40                  45

Leu Leu Pro Asp Val Ala Asp Phe Pro Cys Gly Ala Lys Arg Lys Pro
     50                  55                  60

Arg Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile
 65                  70                  75                  80

Lys Ala Ser Gly Thr Lys Arg
                85
```

<210> 5856
<211> 600
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (270)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5856
Arg Thr Arg Gly Lys Gln Ala Ala Asn Asn Ser Leu Leu Leu His Leu
1 5 10 15

Leu Lys Ser Gln Thr Ile Pro Lys Pro Met Asn Gly His Ser His Ser
20 25 30

Glu Arg Gly Ser Ile Phe Glu Glu Ser Ser Thr Pro Xaa Thr Ile Xaa
35 40 45

Glu Tyr Ser Xaa Asn Asn Pro Ser Phe Thr Asp Asp Ser Ser Gly Asp
50 55 60

```
Glu Ser Ser Tyr Ser Asn Cys Val Pro Ile Asp Leu Ser Cys Lys His
 65                  70                  75                  80

Xaa Thr Glu Lys Ser Glu Ser Asp Gln Pro Val Ser Leu Asp Asn Phe
                 85                  90                  95

Thr Gln Ser Leu Leu Asn Thr Trp Asp Pro Lys Val Pro Asp Val Asp
            100                 105                 110

Ile Lys Glu Asp Gln Asp Thr Xaa Lys Asn Ser Lys Leu Asn Ser His
        115                 120                 125

Gln Lys Val Thr Leu Leu Gln Leu Xaa Leu Gly His Lys Asn Glu Glu
    130                 135                 140

Asn Val Glu Lys Asn Thr Ser Pro Gln Gly Val His Asn Asp Val Ser
145                 150                 155                 160

Lys Phe Asn Thr Gln Asn Xaa Ala Arg Thr Ser Val Ile Glu Ser Pro
                165                 170                 175

Ser Thr Asn Arg Thr Thr Pro Val Ser Thr Pro Pro Leu Leu Thr Ser
            180                 185                 190

Ser Lys Ala Gly Ser Pro Ile Asn Leu Ser Gln His Ser Leu Val Ile
        195                 200                 205

Lys Trp Asn Ser Pro Pro Tyr Val Cys Ser Thr Gln Ser Glu Lys Leu
    210                 215                 220

Thr Asn Thr Ala Ser Asn His Ser Met Asp Leu Thr Lys Ser Lys Asp
225                 230                 235                 240

Pro Pro Gly Glu Lys Pro Ala Gln Asn Glu Gly Ala Gln Asn Ser Ala
                245                 250                 255

Thr Phe Ser Ala Ser Lys Leu Leu Gln Asn Leu Ala Gln Xaa Gly Met
            260                 265                 270

Gln Ser Ser Met Ser Val Glu Glu Gln Arg Pro Ser Lys Gln Leu Leu
        275                 280                 285

Thr Gly Asn Thr Asp Lys Pro Ile Gly Met Ile Asp Arg Leu Asn Ser
    290                 295                 300

Pro Leu Leu Ser Asn Lys Thr Asn Ala Val Glu Glu Asn Lys Ala Phe
305                 310                 315                 320

Ser Ser Gln Pro Thr Gly Pro Glu Pro Gly Leu Ser Gly Ser Glu Ile
                325                 330                 335
```

```
Glu Asn Leu Leu Glu Arg Arg Thr Val Leu Gln Leu Leu Leu Gly Asn
            340                 345                 350

Pro Asn Lys Gly Lys Ser Glu Lys Lys Glu Lys Thr Pro Leu Arg Asp
        355                 360                 365

Glu Ser Thr Gln Glu His Ser Glu Arg Ala Leu Ser Glu Gln Ile Leu
    370                 375                 380

Met Val Lys Ile Lys Ser Glu Pro Cys Asp Asp Leu Gln Ile Pro Asn
385                 390                 395                 400

Thr Asn Val His Leu Ser His Asp Ala Lys Ser Ala Pro Phe Leu Gly
                405                 410                 415

Met Ala Pro Ala Val Gln Arg Ser Ala Pro Ala Leu Pro Val Ser Glu
            420                 425                 430

Asp Phe Lys Ser Glu Pro Val Ser Pro Gln Asp Phe Ser Phe Ser Lys
        435                 440                 445

Asn Gly Leu Leu Ser Arg Leu Leu Arg Gln Asn Gln Asp Ser Tyr Leu
    450                 455                 460

Ala Asp Asp Ser Asp Arg Ser His Arg Asn Asn Glu Met Ala Leu Leu
465                 470                 475                 480

Glu Ser Lys Asn Leu Cys Met Val Pro Lys Lys Arg Lys Leu Tyr Thr
                485                 490                 495

Glu Pro Leu Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp
            500                 505                 510

Ala Ala Asn Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu
        515                 520                 525

Asn Gln Glu Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr
    530                 535                 540

Pro Ala Gly His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala
545                 550                 555                 560

Arg Glu Ser Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu
                565                 570                 575

Asn Cys Val Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp
            580                 585                 590

Ser Lys Lys Glu Arg Thr Gln Lys
        595                 600
```

<210> 5857
<211> 308
<212> PRT
<213> Homo sapiens

<400> 5857

```
Gln Tyr Gly Arg Ile Pro Gly Ser Thr His Ala Ser Ala Glu Pro Leu
  1               5                  10                  15

Glu Asn Pro Phe Lys Lys Met Lys Asn Asn Ile Val Asp Ala Ala Asn
             20                  25                  30

Asn His Ser Ala Pro Glu Val Leu Tyr Gly Ser Leu Leu Asn Gln Glu
         35                  40                  45

Glu Leu Lys Phe Ser Arg Asn Asp Leu Glu Phe Lys Tyr Pro Ala Gly
     50                  55                  60

His Gly Ser Ala Ser Glu Ser Glu His Arg Ser Trp Ala Arg Glu Ser
 65                  70                  75                  80

Lys Ser Phe Asn Val Leu Lys Gln Leu Leu Leu Ser Glu Asn Cys Val
                 85                  90                  95

Arg Asp Leu Ser Pro His Arg Ser Asn Ser Val Ala Asp Ser Lys Lys
            100                 105                 110

Lys Gly His Lys Asn Asn Val Thr Asn Ser Lys Pro Glu Phe Ser Ile
        115                 120                 125

Ser Ser Leu Asn Gly Leu Met Tyr Ser Ser Thr Gln Pro Ser Ser Cys
    130                 135                 140

Met Asp Asn Arg Thr Phe Ser Tyr Pro Gly Val Val Lys Thr Pro Val
145                 150                 155                 160

Ser Pro Thr Phe Pro Glu His Leu Gly Cys Ala Gly Ser Arg Pro Glu
                165                 170                 175

Ser Gly Leu Leu Asn Gly Cys Ser Met Pro Ser Glu Lys Gly Pro Ile
            180                 185                 190

Lys Trp Val Ile Thr Asp Ala Glu Lys Asn Glu Tyr Glu Lys Asp Ser
        195                 200                 205

Pro Arg Leu Thr Lys Thr Asn Pro Ile Leu Tyr Tyr Met Leu Gln Lys
    210                 215                 220
```

```
Gly Gly Asn Ser Val Thr Ser Arg Glu Thr Gln Asp Lys Asp Ile Trp
225                 230                 235                 240

Arg Glu Ala Ser Ser Ala Glu Ser Val Ser Gln Val Thr Ala Lys Glu
                245                 250                 255

Glu Leu Leu Pro Thr Ala Glu Thr Lys Ala Ser Phe Phe Asn Leu Arg
            260                 265                 270

Ser Pro Tyr Asn Ser His Met Gly Asn Asn Ala Ser Arg Pro His Ser
        275                 280                 285

Ala Asn Gly Glu Val Tyr Gly Leu Leu Gly Ser Val Leu Thr Ile Lys
    290                 295                 300

Lys Glu Ser Glu
305
```

<210> 5858
<211> 553
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (375)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (438)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (549)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5858

```
Thr Leu Glu Ala Glu Lys Glu Arg Arg Lys Ser Gly Leu Ser Ser Arg
 1               5                  10                  15

Val Gln Phe Arg Asn Gln Gly Ser Glu Pro Lys Tyr Thr Gln Glu Leu
            20                  25                  30

Thr Leu Lys Arg Gln Lys Gln Lys Val Cys Met Glu Glu Thr Leu Trp
        35                  40                  45

Leu Gln Asp Asn Ile Arg Asp Lys Leu Arg Pro Ile Pro Ile Thr Ala
    50                  55                  60

Ser Val Glu Ile Gln Glu Pro Ser Ser Arg Arg Arg Val Asn Ser Leu
65                  70                  75                  80

Pro Glu Val Leu Pro Ile Leu Asn Ser Asp Glu Pro Lys Thr Ala His
                85                  90                  95

Ile Asp Val His Phe Leu Lys Glu Gly Cys Gly Asp Asp Asn Val Cys
            100                 105                 110

Asn Ser Asn Leu Lys Leu Glu Tyr Lys Phe Cys Thr Arg Glu Gly Asn
        115                 120                 125

Xaa Asp Lys Phe Xaa Tyr Leu Pro Ile Gln Lys Gly Val Pro Glu Leu
    130                 135                 140

Val Leu Lys Asp Gln Lys Asp Ile Ala Leu Glu Ile Thr Val Thr Asn
145                 150                 155                 160

Ser Pro Ser Asn Pro Arg Asn Pro Thr Lys Asp Gly Asp Asp Ala His
                165                 170                 175

Glu Ala Lys Leu Ile Ala Thr Phe Pro Asp Thr Leu Thr Tyr Ser Ala
            180                 185                 190

Tyr Arg Glu Leu Arg Ala Phe Pro Glu Lys Gln Leu Ser Cys Val Ala
        195                 200                 205

Asn Gln Asn Gly Ser Gln Ala Asp Cys Glu Leu Gly Asn Pro Phe Lys
    210                 215                 220

Arg Asn Ser Asn Val Thr Phe Tyr Leu Val Leu Ser Thr Thr Glu Val
225                 230                 235                 240

Thr Phe Asp Thr Pro Asp Leu Asp Ile Asn Leu Lys Leu Glu Thr Thr
                245                 250                 255

Ser Asn Gln Asp Asn Leu Ala Pro Ile Thr Ala Lys Ala Lys Val Val
            260                 265                 270
```

```
Ile Glu Leu Leu Leu Ser Val Ser Gly Val Ala Lys Pro Ser Gln Val
        275                 280                 285

Tyr Phe Gly Gly Thr Val Val Gly Glu Gln Ala Met Lys Ser Glu Asp
    290                 295                 300

Glu Val Gly Ser Leu Ile Glu Tyr Glu Phe Arg Val Ile Asn Leu Gly
305                 310                 315                 320

Lys Pro Leu Thr Asn Leu Gly Thr Ala Thr Leu Asn Ile Gln Trp Pro
                325                 330                 335

Lys Glu Ile Ser Asn Gly Lys Trp Leu Leu Tyr Leu Val Lys Val Glu
            340                 345                 350

Ser Lys Gly Leu Glu Lys Val Thr Cys Glu Pro Gln Lys Glu Ile Asn
        355                 360                 365

Ser Leu Asn Leu Thr Glu Xaa His Asn Ser Arg Lys Lys Arg Glu Ile
    370                 375                 380

Thr Glu Lys Gln Ile Asp Asp Asn Arg Lys Phe Ser Leu Phe Ala Glu
385                 390                 395                 400

Arg Lys Tyr Gln Thr Leu Asn Cys Ser Val Asn Val Asn Cys Val Asn
                405                 410                 415

Ile Arg Cys Pro Leu Arg Gly Leu Asp Ser Lys Ala Ser Leu Ile Leu
            420                 425                 430

Arg Ser Arg Leu Trp Xaa Ser Thr Phe Leu Glu Glu Tyr Ser Lys Leu
        435                 440                 445

Asn Tyr Leu Asp Ile Leu Met Arg Ala Phe Ile Asp Val Thr Ala Ala
    450                 455                 460

Ala Glu Asn Ile Arg Leu Pro Asn Ala Gly Thr Gln Val Arg Val Thr
465                 470                 475                 480

Val Phe Pro Ser Lys Thr Val Ala Gln Tyr Ser Gly Val Pro Trp Trp
                485                 490                 495

Ile Ile Leu Val Ala Ile Leu Ala Gly Ile Leu Met Leu Ala Leu Leu
            500                 505                 510

Val Phe Ile Leu Trp Lys Cys Gly Phe Phe Lys Arg Asn Lys Lys Asp
        515                 520                 525

His Tyr Asp Ala Thr Tyr His Lys Ala Glu Ile His Ala Gln Pro Ser
    530                 535                 540
```

Asp Lys Glu Arg Xaa Thr Ser Asp Ala
545 550

<210> 5859
<211> 110
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5859
Arg Thr Pro Glu Ser Trp Arg Leu Thr Pro Pro Ala Lys Val Gly Gly
1 5 10 15

Leu Asp Phe Ser Pro Val Gln Thr Ser Gln Gly Ala Ser Asp Pro Leu
20 25 30

Pro Asp Pro Leu Gly Leu Met Asp Leu Ser Thr Thr Pro Leu Gln Ser
35 40 45

Ala Pro Pro Leu Glu Ser Pro Gln Arg Leu Leu Ser Ser Glu Pro Leu
50 55 60

Asp Leu Ile Ser Val Pro Phe Gly Asn Ser Ser Pro Ser Asp Ile Asp
65 70 75 80

Val Pro Lys Pro Gly Ser Pro Glu Pro Gln Val Ser Gly Leu Ala Ala
85 90 95

Asn Arg Ser Leu Thr Glu Gly Leu Val Leu Gly His Asn Xaa
100 105 110

<210> 5860
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5860
Pro Xaa Arg Pro Arg Gly Ala Ala Ala Ala Ala Ala Ala Ala Gly Ala

```
Leu Gly Gly Ala Gln Arg Ala Arg Cys Pro Ser Thr Ser Val Leu Gly
         35                  40                  45

Thr Trp Arg Val Ala Ala Ser Pro Pro Ala Pro Val Pro Ser Cys
     50                  55                  60
```

<210> 5862
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5862

```
Ala Thr Lys Ile Asn Leu Ser Leu Ser Ala Leu Gly Asn Val Ile Ser
  1               5                  10                  15

Ala Leu Val Asp Gly Lys Ser Thr His Ile Pro Tyr Arg Asp Ser Lys
             20                  25                  30

Leu Thr Arg Leu Leu Gln Asp Ser Leu Gly Gly Asn Ala Lys Thr Val
         35                  40                  45

Met Val Ala Asn Val Gly Pro Ala Ser Tyr Asn Val Glu Glu Thr Leu
     50                  55                  60

Thr Thr Leu Arg Tyr Ala Asn Arg Ala Lys Asn Ile Lys Asn Lys Pro
 65                  70                  75                  80

Arg Val Asn Glu Asp Pro Lys Asp Ala Leu Leu Arg Glu Phe Gln Glu
                 85                  90                  95

Glu Ile Ala Arg Leu Lys Ala Gln Leu Glu Lys Arg Ser Ile Gly Arg
            100                 105                 110

Arg Lys Arg Arg Glu Lys Arg Arg Glu Gly Gly Gly Ser Gly Gly Gly
        115                 120                 125

Gly Glu Glu Glu Glu Glu Glu Gly Glu Glu Gly Glu Glu Glu Gly Asp
    130                 135                 140

Asp Lys Asp Asp Tyr Trp Arg Glu Gln Gln Glu Lys Leu Glu Ile Glu
145                 150                 155                 160

Lys Arg Ala Ile Val Glu Asp His Ser Leu Val Ala Glu Glu Lys Met
```

```
                165                 170                 175

Arg Leu Leu Lys Glu Lys Glu Lys Lys Met Glu Asp Leu Arg Arg Glu
            180                 185                 190

Lys Asp Ala Ala Glu Met Leu Gly Ala Lys Ile Lys Val Pro Tyr Pro
        195                 200                 205

Tyr Pro Ser Leu Gly Pro Cys Pro Val Thr Ala Phe Xaa Phe Ile Lys
    210                 215                 220

Gln Gln Gln Lys Thr
225
```

<210> 5863
<211> 298
<212> PRT
<213> Homo sapiens

<400> 5863

```
Cys Glu Arg Gly Ser Leu His Phe Thr Gly Val Thr Gly Gly Asn Leu
  1               5                  10                  15

Arg Val Asn Gly Lys Glu Arg Ala Ser Gly Ile Tyr Phe Gly Ala Asn
             20                  25                  30

Glu Ala Leu Leu Ala Val Lys Asp Tyr Ile Arg Thr Gln Ile Ile Ser
         35                  40                  45

Lys Lys Ile Asn Thr Lys Phe Phe Gln Glu Glu Asn Thr Glu Lys Leu
     50                  55                  60

Lys Leu Lys Tyr Tyr Asn Leu Met Ile Gln Leu Asp Gln His Glu Gly
 65                  70                  75                  80

Ser Tyr Leu Ser Ile Cys Lys His Tyr Arg Ala Ile Tyr Asp Thr Pro
                 85                  90                  95

Cys Ile Gln Ala Glu Ser Glu Lys Trp Gln Gln Ala Leu Lys Ser Val
            100                 105                 110

Val Leu Tyr Val Ile Leu Ala Pro Phe Asp Asn Glu Gln Ser Asp Leu
        115                 120                 125

Val His Arg Ile Ser Gly Asp Lys Lys Leu Glu Glu Ile Pro Lys Tyr
    130                 135                 140

Lys Asp Leu Leu Lys Leu Phe Thr Thr Met Glu Leu Met Arg Trp Ser
145                 150                 155                 160
```

```
Thr Leu Val Glu Asp Tyr Gly Met Glu Leu Arg Lys Gly Ser Leu Glu
                165                 170                 175

Ser Pro Ala Thr Asp Val Phe Gly Ser Thr Glu Glu Gly Glu Lys Arg
            180                 185                 190

Trp Lys Asp Leu Lys Asn Arg Val Val Glu His Asn Ile Arg Ile Met
        195                 200                 205

Ala Lys Tyr Tyr Thr Arg Ile Thr Met Lys Arg Met Ala Gln Leu Leu
    210                 215                 220

Asp Leu Ser Val Asp Glu Ser Glu Ala Phe Leu Ser Asn Leu Val Val
225                 230                 235                 240

Asn Lys Thr Ile Phe Ala Lys Val Asp Arg Leu Ala Gly Ile Ile Asn
                245                 250                 255

Phe Gln Arg Pro Lys Asp Pro Asn Asn Leu Leu Asn Asp Trp Ser Gln
            260                 265                 270

Lys Leu Asn Ser Leu Met Ser Leu Val Asn Lys Thr Thr His Leu Ile
        275                 280                 285

Ala Lys Glu Glu Met Ile His Asn Leu Gln
    290                 295
```

<210> 5864
<211> 102
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5864

```
Asn Ser Ala Glu Cys Asn Pro Arg Phe Xaa Asn Ala Thr Ile Val Cys
  1               5                  10                  15

Asn Ser Leu Asp Gly Ser Asn Trp Gly Gln Glu Gln Arg Glu Asp His
             20                  25                  30

Leu Cys Phe Ser Pro Gly Ser Glu Val Lys Val Arg Ser Lys Gly Glu
         35                  40                  45

Arg Ala Leu Gly Val Met Ser Arg Gly Gly Pro Arg Trp Lys Arg Ala
```

```
     50                  55                  60

Trp Pro Gly Thr Gln Trp Leu Ala Leu Phe Glu Pro Ser Gly Thr Ala
 65                  70                  75                  80

Leu Ala His Phe Gln Gly Leu Leu Pro Pro Leu Thr Pro Ser Leu Pro
                 85                  90                  95

Thr Val His Ser Asp Leu
            100
```

<210> 5865
<211> 345
<212> PRT
<213> Homo sapiens

<400> 5865

```
Leu Pro Val Arg Ala Glu Pro Thr Arg Ala Ala Ala Met Ser Gly Asp
  1               5                  10                  15

Glu Met Ile Phe Asp Pro Thr Met Ser Lys Lys Lys Lys Lys Lys Lys
             20                  25                  30

Lys Pro Phe Met Leu Asp Glu Glu Gly Asp Thr Gln Thr Glu Glu Thr
         35                  40                  45

Gln Pro Ser Glu Thr Lys Glu Val Glu Pro Glu Pro Thr Glu Asp Lys
     50                  55                  60

Asp Leu Glu Ala Asp Glu Glu Asp Thr Arg Lys Lys Asp Ala Ser Asp
 65                  70                  75                  80

Asp Leu Asp Asp Leu Asn Phe Phe Asn Gln Lys Lys Lys Lys Lys Lys
                 85                  90                  95

Thr Lys Lys Ile Phe Asp Ile Asp Glu Ala Glu Glu Gly Val Lys Asp
            100                 105                 110

Leu Lys Ile Glu Ser Asp Val Gln Glu Pro Thr Glu Pro Glu Asp Asp
        115                 120                 125

Leu Asp Ile Met Leu Gly Asn Lys Lys Lys Lys Lys Lys Asn Val Lys
    130                 135                 140

Phe Pro Asp Glu Asp Glu Ile Leu Glu Lys Asp Glu Ala Leu Glu Asp
145                 150                 155                 160

Glu Asp Asn Lys Lys Asp Asp Gly Ile Ser Phe Ser Asn Gln Thr Gly
                165                 170                 175
```

```
Pro Ala Trp Ala Gly Ser Glu Arg Asp Tyr Thr Tyr Glu Glu Leu Leu
            180                 185                 190

Asn Arg Val Phe Asn Ile Met Arg Glu Lys Asn Pro Asp Met Val Ala
        195                 200                 205

Gly Glu Lys Arg Lys Phe Val Met Lys Pro Pro Gln Val Val Arg Val
    210                 215                 220

Gly Thr Lys Lys Thr Ser Phe Val Asn Phe Thr Asp Ile Cys Lys Leu
225                 230                 235                 240

Leu His Arg Gln Pro Lys His Leu Leu Ala Phe Leu Leu Ala Glu Leu
                245                 250                 255

Gly Thr Ser Gly Ser Ile Asp Gly Asn Asn Gln Leu Val Ile Lys Gly
            260                 265                 270

Arg Phe Gln Gln Lys Gln Ile Glu Asn Val Leu Arg Arg Tyr Ile Lys
        275                 280                 285

Glu Tyr Val Thr Cys His Thr Cys Arg Ser Pro Asp Thr Ile Leu Gln
    290                 295                 300

Lys Asp Thr Arg Leu Tyr Phe Leu Gln Cys Glu Thr Cys His Ser Arg
305                 310                 315                 320

Cys Ser Val Ala Ser Ile Lys Thr Gly Phe Gln Ala Val Thr Gly Lys
                325                 330                 335

Arg Ala Gln Leu Arg Ala Lys Ala Asn
            340                 345
```

<210> 5866
<211> 194
<212> PRT
<213> Homo sapiens

<400> 5866

```
Arg Thr Ser Met Gly Ile Leu Tyr Ser Glu Pro Ile Cys Gln Ala Ala
  1               5                  10                  15

Tyr Gln Asn Asp Phe Gly Gln Val Trp Arg Trp Val Lys Glu Asp Ser
             20                  25                  30

Ser Tyr Ala Asn Val Gln Asp Gly Phe Asn Gly Asp Thr Pro Leu Ile
         35                  40                  45
```

```
Cys Ala Cys Arg Arg Gly His Val Arg Ile Val Ser Phe Leu Leu Arg
     50                  55                  60

Arg Asn Ala Asn Val Asn Leu Lys Asn Gln Lys Glu Arg Thr Cys Leu
 65                  70                  75                  80

His Tyr Ala Val Lys Lys Lys Phe Thr Phe Ile Asp Tyr Leu Leu Ile
                 85                  90                  95

Ile Leu Leu Met Pro Val Leu Leu Ile Gly Tyr Phe Leu Met Val Ser
            100                 105                 110

Lys Thr Lys Gln Asn Glu Ala Leu Val Arg Met Leu Leu Asp Ala Gly
        115                 120                 125

Val Glu Val Asn Ala Thr Asp Cys Tyr Gly Cys Thr Ala Leu His Tyr
    130                 135                 140

Ala Cys Glu Met Lys Asn Gln Ser Leu Ile Pro Leu Leu Leu Glu Ala
145                 150                 155                 160

Arg Ala Asp Pro Thr Ile Lys Asn Lys His Gly Glu Ser Ser Leu Asp
                165                 170                 175

Ile Ala Arg Arg Leu Lys Phe Ser Gln Ile Glu Leu Met Leu Arg Lys
            180                 185                 190

Ala Leu
```

<210> 5867
<211> 469
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (436)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5867
Ser Ala Ser Phe Ser Arg Gly Xaa Gln Leu Ser Phe Thr Asp Leu Gly
1 5 10 15

Leu Pro Pro Thr Asp His Leu Gln Ala Ser Phe Gly Phe Gln Thr Phe
20 25 30

Gln Pro Ser Gly Ile Leu Leu Asp His Gln Thr Trp Thr Arg Xaa Leu
35 40 45

Gln Val Thr Leu Glu Asp Gly Tyr Ile Glu Leu Ser Thr Ser Asp Ser
50 55 60

Xaa Gly Pro Ile Phe Lys Ser Pro Gln Thr Tyr Met Asp Gly Leu Leu
65 70 75 80

His Tyr Val Ser Val Ile Ser Asp Asn Ser Gly Leu Arg Leu Leu Ile
85 90 95

Asp Asp Gln Leu Leu Arg Asn Ser Lys Arg Leu Lys His Ile Ser Ser
100 105 110

Ser Arg Gln Ser Leu Arg Leu Gly Gly Ser Asn Phe Glu Gly Cys Ile
115 120 125

Ser Asn Val Phe Val Gln Arg Leu Ser Leu Ser Pro Glu Val Leu Asp
130 135 140

Leu Thr Ser Asn Ser Leu Lys Arg Asp Val Ser Leu Gly Gly Cys Ser
145 150 155 160

Leu Asn Lys Pro Pro Phe Leu Met Leu Leu Lys Gly Ser Thr Arg Phe
165 170 175

Asn Lys Thr Lys Thr Phe Arg Ile Asn Gln Leu Leu Gln Asp Thr Pro
180 185 190

Val Ala Ser Pro Arg Ser Val Lys Val Trp Gln Asp Ala Cys Ser Pro
195 200 205

Leu Pro Lys Thr Gln Ala Asn His Gly Ala Leu Gln Phe Gly Asp Ile
210 215 220

Pro Thr Ser His Leu Leu Phe Lys Leu Pro Gln Glu Leu Leu Lys Pro
225 230 235 240

```
Arg Ser Gln Phe Ala Val Asp Met Gln Thr Thr Ser Ser Arg Gly Leu
                245                 250                 255

Val Phe His Thr Gly Thr Lys Asn Ser Phe Met Ala Leu Tyr Leu Ser
            260                 265                 270

Lys Gly Arg Leu Val Phe Ala Leu Gly Thr Asp Gly Lys Lys Leu Arg
        275                 280                 285

Ile Lys Ser Lys Glu Lys Cys Asn Asp Gly Lys Trp His Thr Val Val
    290                 295                 300

Phe Gly His Asp Gly Glu Lys Gly Arg Leu Val Val Asp Gly Leu Arg
305                 310                 315                 320

Ala Arg Glu Gly Ser Leu Pro Gly Asn Ser Thr Ile Ser Ile Arg Ala
                325                 330                 335

Pro Val Tyr Leu Gly Ser Pro Pro Ser Gly Lys Pro Lys Ser Leu Pro
            340                 345                 350

Thr Asn Ser Phe Val Gly Cys Leu Lys Asn Phe Gln Leu Asp Ser Lys
        355                 360                 365

Pro Leu Tyr Thr Pro Ser Ser Ser Phe Gly Val Ser Ser Cys Leu Gly
    370                 375                 380

Gly Pro Leu Glu Lys Gly Ile Tyr Phe Ser Glu Glu Gly Gly His Val
385                 390                 395                 400

Val Leu Ala His Ser Val Leu Leu Gly Pro Glu Phe Lys Leu Val Phe
                405                 410                 415

Ser Ile Arg Pro Arg Ser Leu Thr Gly Ile Leu Ile His Ile Gly Ser
            420                 425                 430

Gln Pro Gly Xaa Ala Leu Met Cys Leu Pro Gly Gly Arg Lys Gly His
        435                 440                 445

Gly Leu Tyr Gly Gln Trp Gly Arg Trp Asp Leu Asn Val Gly His Thr
    450                 455                 460

Lys Ala Val Ser Val
465
```

<210> 5868
<211> 83
<212> PRT

<213> Homo sapiens

<400> 5868

```
Phe Leu Ile Leu Ser Gly Glu Leu Leu Ala Arg Ile Ile Tyr Leu Gln
  1               5                  10                  15

Ile Ile Leu Asp Gln Arg Leu Gly Ala Gly Leu Thr Pro Ser Ser Arg
             20                  25                  30

Leu Gly Ala Ser Ile His Phe Leu Val Gly Leu Asn Ile Pro Pro Ala
         35                  40                  45

Phe Arg Arg Ile His Arg Thr Tyr Cys Ser Phe Gln Met Thr Phe Trp
     50                  55                  60

Lys Ile Val Pro Phe Ala Asn Arg Asn Met Pro Glu Gly Ile Phe Ser
 65                  70                  75                  80

Ser Phe Ile
```

<210> 5869
<211> 117
<212> PRT
<213> Homo sapiens

<400> 5869

```
Ser Cys Thr Arg His Gln Ser Leu Pro Gly Ser Cys Asp Glu Leu His
  1               5                  10                  15

Leu Ser Pro Phe Leu Pro Gln Pro Gln Thr Leu Ser Phe Lys Glu Gly
             20                  25                  30

Leu Pro Gly Ser Leu His Pro Thr Ala Pro Met Arg Leu Gly Pro Arg
         35                  40                  45

Val His Ser Pro Gly Gly Ser Gln Leu Ser Gly Arg Ser Phe Pro Pro
     50                  55                  60

Asn Ile Phe Gln Leu Leu Gly Gly Asp His Arg Ala Leu Leu Leu Lys
 65                  70                  75                  80

Ile Trp Leu Leu Gln Arg Pro Glu Ser Gln Glu Gly Leu Leu Pro Gly
                 85                  90                  95

Arg Leu Val Val Met Glu Arg Arg Val Lys Met Thr Ser Cys Pro Ser
            100                 105                 110

Cys Pro Arg Phe Cys
```

115

<210> 5870
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5870
Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met
1 5 10 15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
20 25 30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Xaa Arg
35 40 45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
50 55 60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
65 70 75 80

Lys Phe Ala Val Leu Glu Ile Leu Asn Asn Ser Ser Gln Lys Asn Ser
85 90 95

Ala Phe Gly Asp Tyr Pro Val Pro Gly Pro Glu Phe Asp His Val Ala
100 105 110

Ala Glu Leu Trp Val Tyr Leu Leu Gln Gln His Gln Gln Pro Leu Pro
115 120 125

Asp Ile Pro Gly Ala Arg Arg Gly Cys Thr Pro Gly Thr Gly Ser Gly
130 135 140

```
Ile Leu Arg Phe Xaa Thr Met Ile Leu Leu Xaa Arg Thr Arg Ser Pro
145                 150                 155                 160

Thr Asn Phe Pro Lys Val Val Gln Met Leu
                165                 170
```

<210> 5871
<211> 173
<212> PRT
<213> Homo sapiens

<400> 5871

```
Arg Thr Tyr Phe Pro Val Lys Met Pro Thr Thr Lys Lys Thr Leu Met
  1               5                  10                  15

Phe Leu Ser Ser Phe Phe Thr Ser Leu Gly Ser Phe Ile Val Ile Cys
             20                  25                  30

Ser Ile Leu Gly Thr Gln Ala Trp Ile Thr Ser Thr Ile Ala Val Arg
         35                  40                  45

Asp Ser Ala Ser Asn Gly Ser Ile Phe Ile Thr Tyr Gly Leu Phe Arg
     50                  55                  60

Gly Glu Ser Ser Glu Glu Leu Ser His Gly Leu Ala Glu Pro Lys Lys
 65                  70                  75                  80

Lys Phe Ala Ala Ser Phe Val Phe Val Thr Met Ile Leu Phe Val Ala
                 85                  90                  95

Asn Thr Gln Ser Asn Gln Leu Ser Glu Glu Leu Phe Gln Met Leu Tyr
            100                 105                 110

Pro Ala Thr Thr Ser Lys Gly Thr Thr His Ser Tyr Gly Tyr Ser Phe
        115                 120                 125

Trp Leu Ile Leu Leu Val Ile Leu Leu Asn Ile Val Thr Val Thr Ile
    130                 135                 140

Ile Ile Phe Tyr Gln Lys Ala Arg Tyr Gln Arg Lys Gln Glu Gln Arg
145                 150                 155                 160

Lys Pro Met Glu Tyr Ala Pro Arg Asp Gly Ile Leu Phe
                165                 170
```

<210> 5872

<211> 132
<212> PRT
<213> Homo sapiens

<400> 5872
His Arg Asn Arg Pro Ser Gln Cys His Leu Leu Asn Leu Trp Arg Pro
1 5 10 15

Pro Asp Leu Glu Glu Pro Thr Lys Val Asp Lys Leu Gln Glu Pro Leu
20 25 30

Leu Glu Ala Leu Lys Ile Tyr Ile Arg Lys Arg Arg Pro Ser Lys Pro
35 40 45

His Met Phe Pro Lys Ile Leu Met Lys Ile Thr Asp Leu Arg Ser Ile
50 55 60

Ser Ala Lys Gly Ala Glu Arg Val Ile Thr Leu Lys Met Glu Ile Pro
65 70 75 80

Gly Ser Met Pro Pro Leu Ile Gln Glu Met Leu Glu Asn Ser Glu Gly
85 90 95

His Glu Pro Leu Thr Pro Ser Ser Ser Gly Asn Thr Ala Glu His Ser
100 105 110

Pro Ser Ile Ser Pro Ser Ser Val Glu Asn Ser Gly Val Ser Gln Ser
115 120 125

Pro Leu Val Gln
130

<210> 5873
<211> 326
<212> PRT
<213> Homo sapiens

<400> 5873
Ala His Ala Ser Ala His Ala Ser Ala Trp Val Pro Ala Pro Gln Arg
1 5 10 15

Ser Arg Asp Ser Pro Arg Arg Arg Ala Arg Arg Pro Glu Leu Pro Lys
20 25 30

Pro Ser Arg Ala Ala His Thr Pro Gly Leu His Ser Leu Phe Gln His
35 40 45

Pro Leu Val Leu Ala Ala Ala Arg Val Pro Glu Thr Glu Leu Pro Gln
50 55 60

```
Arg Pro Arg Arg Arg Arg Cys Glu Gly Pro Met Arg Ala Pro Leu Leu
 65                  70                  75                  80

Pro Pro Ala Pro Val Val Leu Ser Leu Leu Ile Leu Gly Ser Gly His
                 85                  90                  95

Tyr Ala Ala Gly Leu Asp Leu Asn Asp Thr Tyr Ser Gly Lys Arg Glu
            100                 105                 110

Pro Phe Ser Gly Asp His Ser Ala Asp Gly Phe Glu Val Thr Ser Arg
        115                 120                 125

Ser Glu Met Ser Ser Gly Ser Glu Ile Ser Pro Val Ser Glu Met Pro
    130                 135                 140

Ser Ser Ser Glu Pro Ser Ser Gly Ala Asp Tyr Asp Tyr Ser Glu Glu
145                 150                 155                 160

Tyr Asp Asn Glu Pro Gln Ile Pro Gly Tyr Ile Val Asp Asp Ser Val
                165                 170                 175

Arg Val Glu Gln Val Val Lys Pro Pro Gln Asn Lys Thr Glu Ser Glu
            180                 185                 190

Asn Thr Ser Asp Lys Pro Lys Arg Lys Lys Lys Gly Gly Lys Asn Gly
        195                 200                 205

Lys Asn Arg Arg Asn Arg Lys Lys Lys Asn Pro Cys Asn Ala Glu Phe
    210                 215                 220

Gln Asn Phe Cys Ile His Gly Glu Cys Lys Tyr Ile Glu His Leu Glu
225                 230                 235                 240

Ala Val Thr Cys Lys Cys Gln Gln Glu Tyr Phe Gly Glu Arg Cys Gly
                245                 250                 255

Glu Lys Ser Met Lys Thr His Ser Met Ile Asp Ser Ser Leu Ser Lys
            260                 265                 270

Ile Ala Leu Ala Ala Ile Ala Ala Phe Met Ser Ala Val Ile Leu Thr
        275                 280                 285

Ala Val Ala Val Ile Thr Val Gln Leu Arg Arg Gln Tyr Val Arg Lys
    290                 295                 300

Tyr Glu Gly Glu Ala Glu Glu Arg Lys Lys Leu Arg Gln Glu Asn Gly
305                 310                 315                 320

Asn Val His Ala Ile Ala
                325
```

<210> 5874
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5874
Ala Pro Gln Arg Ser Ser Leu Val Asp Arg Val Arg Leu His Leu Lys
1 5 10 15

Lys Ile Lys Ile Lys Leu Phe Ser Glu Glu Gln Met Ser His Ser Ser
20 25 30

Asn Asp Pro Leu Ser Arg Asn Met Val Glu Phe Ser Pro Ile Gln Val
35 40 45

Ser His Ile Gln Lys Thr Thr Ser His Tyr
50 55

<210> 5875
<211> 93
<212> PRT
<213> Homo sapiens

<400> 5875
Gly Arg Leu Trp Ser Arg Glu Glu Ala Met Ala Thr Met Glu Asn Lys
1 5 10 15

Val Ile Cys Ala Leu Val Leu Val Ser Met Leu Ala Leu Gly Thr Leu
20 25 30

Ala Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu Arg Gln
35 40 45

Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn Lys Gly
50 55 60

Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe Tyr Pro
65 70 75 80

Asn Thr Ile Asp Val Pro Pro Glu Glu Glu Cys Glu Phe
85 90

<210> 5876
<211> 55

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5876
Lys Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Ile Ser
1 5 10 15

Pro Arg Ala Arg Leu Pro Pro Xaa Pro Asp Thr Ser Asp Thr Leu Leu
20 25 30

Gln Leu Cys Leu Gly Ser Gln His Arg Leu Thr Ala Leu Thr Leu Thr
35 40 45

Thr Gln Asn Trp Pro Lys Asn
50 55

<210> 5877
<211> 214
<212> PRT
<213> Homo sapiens

<400> 5877
Ala Gly Arg Pro Met Lys Val Gly His Val Thr Glu Arg Thr Asp Ala
1 5 10 15

Ser Ser Ala Ser Ser Phe Leu Asp Ser Asp Glu Leu Glu Arg Thr Gly
20 25 30

Ile Asp Leu Gly Thr Thr Gly Arg Leu Gln Leu Met Ala Arg Leu Ala
35 40 45

Glu Gly Thr Gly Leu Gln Ile Pro Pro Ala Ala Gln Gln Ala Leu Gln
50 55 60

Met Ser Gly Ser Leu Ala Phe Gly Ala Val Ala Glu Phe Ser Phe Val
65 70 75 80

Ile Asp Leu Gln Thr Arg Leu Ser Gln Gln Thr Glu Ala Ser Ala Leu
85 90 95

Ala Ala Ala Ala Ser Val Gln Pro Leu Ala Thr Gln Cys Phe Gln Leu
100 105 110

Ser Asn Met Phe Asn Pro Gln Thr Glu Glu Glu Val Gly Trp Asp Thr

```
        115                 120                 125

Glu Ile Lys Asp Asp Val Ile Glu Glu Cys Asn Lys His Gly Gly Val
    130                 135                 140

Ile His Ile Tyr Val Asp Lys Asn Ser Ala Gln Gly Asn Val Tyr Val
145                 150                 155                 160

Lys Cys Pro Ser Ile Ala Ala Ala Ile Ala Ala Val Asn Ala Leu His
                165                 170                 175

Gly Arg Trp Phe Ala Gly Lys Met Ile Thr Ala Ala Tyr Val Pro Leu
            180                 185                 190

Pro Thr Tyr His Asn Leu Phe Pro Asp Ser Met Thr Ala Thr Gln Leu
        195                 200                 205

Leu Val Pro Ser Arg Arg
    210
```

<210> 5878
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5878

```
Asn Cys Ser Pro Ala Phe Tyr Gly Ser Ser Leu Pro Cys Pro Gln Thr
  1               5                  10                  15

Gln Gln Lys Arg Arg Gly Arg Ile Arg Gly Leu Ser Arg Pro Ala Pro
             20                  25                  30

Leu Pro Thr Cys His Thr Arg Cys Glu Phe Glu His Ser Pro Xaa Met
         35                  40                  45

Glu Thr Ser His Pro Gln Leu Asn Asn Gly Pro Phe Met Pro Thr Leu
     50                  55                  60

Pro Thr Arg Arg Gly Gln Arg Cys Thr Arg Arg Pro Ser Ser Ser Pro
 65                  70                  75                  80

Ser Ser Ala Pro Ser His Tyr Ser Trp Phe Tyr
                85                  90
```

<210> 5879
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5879
Thr Gln Lys Thr Ser Ser Leu Leu Pro Ala Leu Ser Leu Gln Leu Pro
1 5 10 15

Leu Leu Thr Arg Phe Ser Ile Met Cys Ser Val Lys Glu Glu Phe Trp
20 25 30

Arg Val Gln Ser Ile Ile Thr Glu Leu Val Leu Lys Gly Glu Phe Gly
35 40 45

Val Lys Arg Gln
50

<210> 5880
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5880
Ala Asp Asp Ser Phe Phe Thr Gly Ile Ala Phe Xaa Thr Ser Ile Ser
1 5 10 15

Val Asn Asn Cys Val Cys His Phe Ser Pro Leu Lys Ser Asp Gln Asp
20 25 30

Tyr Ile Leu Lys Glu Gly Asp Leu Val Lys Met
35 40

<210> 5881
<211> 131
<212> PRT
<213> Homo sapiens

<400> 5881
Pro Thr Arg Pro Ala Gln Thr Ala Leu Pro Tyr Ala Met Asn Ser Glu

```
 1               5                  10                  15

Phe Ser Ser Val Leu Ala Ala Gln Leu Lys His His Ser Glu Asn Lys
            20                  25                  30

Gly Leu Asp Lys Val Met Glu Thr Gln Ala Gln Val Asp Glu Leu Lys
        35                  40                  45

Gly Ile Met Val Arg Asn Ile Asp Leu Val Ala Gln Arg Gly Glu Arg
    50                  55                  60

Leu Glu Leu Leu Ile Asp Lys Thr Glu Asn Leu Val Asp Ser Ser Val
65                  70                  75                  80

Thr Phe Lys Thr Thr Ser Arg Asn Leu Ala Arg Ala Met Cys Met Lys
                85                  90                  95

Asn Leu Lys Leu Thr Ile Ile Ile Ile Ile Val Ser Ile Val Phe Ile
            100                 105                 110

Tyr Ile Ile Val Ser Pro Leu Cys Gly Gly Phe Thr Trp Pro Ser Cys
        115                 120                 125

Val Lys Lys
    130
```

<210> 5882
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (197)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5882

```
Asn Phe Gly Ile Lys Asp Lys Pro Thr Phe Ile Lys Gly Ile Gly Ala
 1               5                  10                  15

Gly Gly Ser Ile Thr Gly Leu Lys Phe Asn Pro Leu Asn Thr Asn Gln
            20                  25                  30

Phe Tyr Ala Ser Ser Met Glu Gly Thr Thr Arg Leu Gln Asp Phe Lys
        35                  40                  45

Gly Asn Ile Leu Arg Val Phe Ala Ser Ser Asp Thr Ile Asn Ile Trp
    50                  55                  60
```

```
Phe Cys Ser Leu Asp Val Ser Ala Ser Ser Arg Met Val Val Thr Gly
 65                  70                  75                  80

Asp Asn Val Gly Asn Val Ile Leu Leu Asn Met Asp Gly Lys Glu Leu
                85                  90                  95

Trp Asn Leu Arg Met His Lys Lys Lys Val Thr His Val Ala Leu Asn
            100                 105                 110

Pro Cys Cys Asp Trp Phe Leu Ala Thr Ala Ser Val Asp Gln Thr Val
        115                 120                 125

Lys Ile Trp Asp Leu Arg Gln Val Arg Gly Lys Ala Ser Phe Leu Tyr
    130                 135                 140

Ser Leu Pro His Arg His Pro Val Asn Ala Ala Cys Phe Ser Pro Asp
145                 150                 155                 160

Gly Ala Arg Leu Leu Thr Thr Asp Gln Lys Ser Glu Ile Arg Val Tyr
                165                 170                 175

Ser Ala Ser Gln Trp Asp Cys Pro Leu Gly Leu Ile Pro His Pro His
            180                 185                 190

Arg His Phe Gln Xaa Leu Thr Pro Ile Lys Ala Ala Trp Asp Pro Arg
        195                 200                 205

Tyr Asn Leu Ile Val Val Gly Arg Tyr Pro Asp Pro Asn Phe Lys Ser
    210                 215                 220

Cys Thr
225
```

<210> 5883
<211> 484
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5883

```
Trp Leu Leu Arg Ser Pro Gly Lys Leu Thr Ala Arg Glu Arg Ile Ser
  1               5                  10                  15

Leu Leu Leu Asp Pro Gly Ser Phe Xaa Glu Ser Asp Met Phe Val Glu
            20                  25                  30
```

```
His Arg Cys Ala Asp Phe Gly Met Ala Ala Asp Lys Asn Lys Phe Pro
         35                  40                  45

Gly Asp Ser Val Val Thr Gly Arg Gly Arg Ile Asn Gly Arg Leu Val
     50                  55                  60

Tyr Val Phe Ser Gln Asp Phe Thr Val Phe Gly Gly Ser Leu Ser Gly
 65                  70                  75                  80

Ala His Ala Gln Lys Ile Cys Lys Ile Met Asp Gln Ala Ile Thr Val
                 85                  90                  95

Gly Ala Pro Val Ile Gly Leu Asn Asp Ser Gly Gly Ala Arg Ile Gln
            100                 105                 110

Glu Gly Val Glu Ser Leu Ala Gly Tyr Ala Asp Ile Phe Leu Arg Asn
        115                 120                 125

Val Thr Ala Ser Gly Val Ile Pro Gln Ile Ser Leu Ile Met Gly Pro
    130                 135                 140

Cys Ala Gly Gly Ala Val Tyr Ser Pro Ala Leu Thr Asp Phe Thr Phe
145                 150                 155                 160

Met Val Lys Asp Thr Ser Tyr Leu Phe Ile Thr Gly Pro Asp Val Val
                165                 170                 175

Lys Ser Val Thr Asn Glu Asp Val Thr Gln Glu Glu Leu Gly Gly Ala
            180                 185                 190

Lys Thr His Thr Thr Met Ser Gly Val Ala His Arg Ala Phe Glu Asn
        195                 200                 205

Asp Val Asp Ala Leu Cys Asn Leu Arg Asp Phe Phe Asn Tyr Leu Pro
    210                 215                 220

Leu Ser Ser Gln Asp Pro Ala Pro Val Arg Glu Cys His Asp Pro Ser
225                 230                 235                 240

Asp Arg Leu Val Pro Glu Leu Asp Thr Ile Val Pro Leu Glu Ser Thr
                245                 250                 255

Lys Ala Tyr Asn Met Val Asp Ile Ile His Ser Val Val Asp Glu Arg
            260                 265                 270

Glu Phe Phe Glu Ile Met Pro Asn Tyr Ala Lys Asn Ile Ile Val Gly
        275                 280                 285

Phe Ala Arg Met Asn Gly Arg Thr Val Gly Ile Val Gly Asn Gln Pro
    290                 295                 300
```

```
Lys Val Ala Ser Gly Cys Leu Asp Ile Asn Ser Ser Val Lys Gly Ala
305                 310                 315                 320

Arg Phe Val Arg Phe Cys Asp Ala Phe Asn Ile Pro Leu Ile Thr Phe
                325                 330                 335

Val Asp Val Pro Gly Phe Leu Pro Gly Thr Ala Gln Glu Tyr Gly Gly
            340                 345                 350

Ile Ile Arg His Gly Ala Lys Leu Leu Tyr Ala Phe Ala Glu Ala Thr
        355                 360                 365

Val Pro Lys Val Thr Val Ile Thr Arg Lys Ala Tyr Gly Gly Ala Tyr
    370                 375                 380

Asp Val Met Ser Ser Lys His Leu Cys Gly Asp Thr Asn Tyr Ala Trp
385                 390                 395                 400

Pro Thr Ala Glu Ile Ala Val Met Gly Ala Lys Gly Ala Val Glu Ile
                405                 410                 415

Ile Phe Lys Gly His Glu Asn Val Glu Ala Ala Gln Ala Glu Tyr Ile
            420                 425                 430

Glu Lys Phe Ala Asn Pro Phe Pro Ala Ala Val Arg Gly Phe Val Asp
        435                 440                 445

Asp Ile Ile Gln Pro Ser Ser Thr Arg Ala Arg Ile Cys Cys Asp Leu
    450                 455                 460

Asp Val Leu Ala Ser Lys Lys Val Gln Arg Pro Trp Arg Lys His Ala
465                 470                 475                 480

Asn Ile Pro Leu
```

<210> 5884
<211> 344
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (325)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (327)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5884

```
Asn Lys Met Lys Ile Phe Ser Glu Ser His Lys Thr Val Phe Val Val
  1               5                  10                  15

Asp His Cys Pro Tyr Met Ala Glu Ser Cys Arg Gln His Val Glu Phe
             20                  25                  30

Asp Met Leu Val Lys Asn Arg Thr Gln Gly Ile Ile Pro Leu Ala Pro
         35                  40                  45

Ile Ser Lys Ser Leu Trp Thr Xaa Ser Val Glu Ser Ser Xaa Glu Tyr
     50                  55                  60

Cys Arg Ile Met Tyr Asp Ile Phe Pro Phe Lys Lys Leu Val Asn Phe
 65                  70                  75                  80

Ile Val Ser Asp Ser Gly Ala His Val Leu Asn Ser Trp Thr Gln Glu
                 85                  90                  95

Asp Gln Asn Leu Gln Glu Leu Met Ala Ala Leu Ala Ala Xaa Gly Pro
            100                 105                 110

Pro Asn Pro Arg Ala Asp Pro Glu Cys Cys Ser Ile Leu His Gly Leu
        115                 120                 125

Val Ala Ala Val Glu Thr Leu Cys Lys Ile Thr Glu Tyr Gln His Glu
    130                 135                 140

Ala Arg Thr Leu Leu Met Glu Asn Ala Glu Arg Val Gly Asn Arg Gly
145                 150                 155                 160

Arg Ile Ile Cys Ile Thr Asn Ala Lys Ser Asp Ser His Val Arg Met
                165                 170                 175
```

```
Leu Glu Asp Cys Val Gln Glu Thr Ile His Glu His Asn Lys Leu Ala
            180                 185                 190

Ala Asn Ser Asp His Leu Met Gln Ile Gln Lys Cys Glu Leu Val Leu
        195                 200                 205

Ile His Thr Tyr Pro Val Gly Glu Asp Ser Leu Val Ser Asp Arg Ser
    210                 215                 220

Lys Lys Glu Leu Ser Pro Val Leu Thr Ser Glu Val His Ser Val Arg
225                 230                 235                 240

Ala Gly Arg His Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His
                245                 250                 255

Phe Asp Leu Ala Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu
            260                 265                 270

Gln His Ala Asn Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His
        275                 280                 285

Lys Asp Ala His Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly
    290                 295                 300

Gly Gly Ser Arg Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp
305                 310                 315                 320

Cys Thr Pro Arg Xaa Lys Xaa Thr Leu Cys Phe Leu Leu Phe Gln Glu
                325                 330                 335

Leu His Tyr Cys Thr Gly Ala Leu
            340
```

<210> 5885
<211> 365
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (192)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5885

```
Pro Glu His Ser Trp Ser Ser Ser Ser Ser Thr Lys Arg Trp Thr Glu
  1               5                  10                  15

Lys Thr Ala Glu Thr Met Gly Pro Pro Ser Ala Pro Pro Cys Arg Leu
             20                  25                  30

His Val Pro Trp Lys Glu Val Leu Leu Thr Ala Ser Leu Leu Thr Phe
         35                  40                  45

Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe
     50                  55                  60

Asn Val Ala Glu Gly Lys Glu Val Leu Leu Leu Ala His Asn Leu Pro
 65                  70                  75                  80

Gln Asn Arg Ile Gly Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly
                 85                  90                  95

Asn Ser Leu Ile Val Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro
            100                 105                 110

Gly Pro Ala Tyr Ser Gly Arg Glu Thr Ile Tyr Pro Asn Ala Ser Leu
        115                 120                 125

Leu Ile Gln Asn Val Thr Gln Asn Asp Thr Gly Phe Tyr Thr Leu Gln
    130                 135                 140

Val Ile Lys Ser Asp Leu Val Asn Glu Glu Xaa Thr Gly Gln Phe His
145                 150                 155                 160

Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Xaa Ser Asn Asn Ser Asn
                165                 170                 175

Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Xaa
            180                 185                 190

Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val
        195                 200                 205

Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Met Thr Leu Thr Leu Leu
    210                 215                 220

Ser Val Lys Arg Asn Asp Ala Gly Ser Tyr Glu Cys Glu Ile Gln Asn
225                 230                 235                 240
```

```
Pro Ala Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asn Val Leu Tyr
               245                 250                 255

Gly Pro Asp Gly Pro Thr Ile Ser Pro Ser Lys Ala Asn Tyr Arg Pro
            260                 265                 270

Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala
        275                 280                 285

Gln Tyr Ser Trp Phe Ile Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu
    290                 295                 300

Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Met Cys
305                 310                 315                 320

Gln Ala His Asn Ser Ala Thr Gly Leu Asn Arg Thr Thr Val Thr Met
               325                 330                 335

Ile Thr Val Ser Gly Ser Ala Pro Val Leu Ser Ala Val Ala Thr Val
            340                 345                 350

Gly Ile Thr Ile Gly Val Leu Ala Arg Val Ala Leu Ile
        355                 360                 365
```

<210> 5886
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5886

```
Asp Pro Val Ser Glu Glu Gly Glu Gly Leu Ser Cys Xaa Asp Gln Xaa
  1               5                  10                  15

His Arg Asp Pro Leu Gly Arg Gly Ala Gly Arg Ala Lys Lys Arg Thr
             20                  25                  30

Cys Lys Gly Arg Arg Arg Asn Pro Asp Ala Ala Ser Glu Val Gln Ala
         35                  40                  45
```

```
His Leu Val Asn Met His Cys His Glu Phe Leu Pro Asp Val Leu Leu
     50                  55                  60

Phe Ser Phe Thr Tyr Ser Phe Asp Gln Ile Val Cys Gly Leu Asn Lys
 65                  70                  75                  80

Met Lys Ile Ser Ser Pro Leu Phe Leu Gly Asn Thr Leu
                 85                  90
```

<210> 5887
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5887

```
Leu Cys Glu Lys Trp Ala Gln Trp Pro Ser Pro Glu Ile Ser Phe Ile
  1               5                  10                  15

Leu Gly Gln Glu Phe Asp Glu Val Thr Ala Asp Asp Arg Lys Val Lys
             20                  25                  30

Ser Thr Ile Thr Leu Asp Gly Gly Val Leu Val His Val Gln Lys Trp
         35                  40                  45

Asp Gly Lys Ser Thr Thr Ile Lys Arg Lys Arg Glu Asp Asp Lys Leu
     50                  55                  60

Val Val Glu Cys Val Met Lys Gly Val Thr Ser Thr Arg Val Tyr Glu
 65                  70                  75                  80

Arg Ala
```

<210> 5888
<211> 102
<212> PRT
<213> Homo sapiens

<400> 5888

```
Asp Leu His Ser Gln Trp Gly Thr Trp Pro Pro Ile Leu Gly Asp Leu
  1               5                  10                  15

Arg Lys Arg Thr Ser Pro Trp Gly Glu Gly Trp Val Gly Pro Glu Gly
             20                  25                  30

Pro Val Pro Ser Ser Val Leu Arg Gly Arg Ala Thr Cys Ser Asn Gly
         35                  40                  45
```

```
Ile Cys Ile Leu Ala Pro Leu His Leu Leu Ser Pro Ala Glu Ser Phe
     50                  55                  60

Pro Ser Lys Pro Lys Ser Cys His Cys Phe Phe Leu Pro Gly Lys Asn
 65                  70                  75                  80

Ala Trp Thr Leu Pro Gly Asp Arg Leu Lys Pro Glu Gln Cys His Thr
                 85                  90                  95

Leu Ala Leu Ile Pro Cys
            100
```

<210> 5889
<211> 51
<212> PRT
<213> Homo sapiens

<400> 5889

```
Tyr Pro Leu Phe Thr Ile Met Leu Phe Glu Thr Lys Val Thr Met Tyr
  1               5                  10                  15

Thr Ile Leu Leu Glu Glu Val Phe Asp Arg Lys Ser Asn Ile Met Ser
             20                  25                  30

Phe Ile Asn Phe Leu Val Leu Lys Lys Ala Val Ile Tyr Ile Tyr Lys
         35                  40                  45

Leu Cys Lys
     50
```

<210> 5890
<211> 239
<212> PRT
<213> Homo sapiens

<400> 5890

```
Glu Tyr Gly Ser Pro Ser Val Ile Ser Val Ser Lys Gly Ser Pro Asp
  1               5                  10                  15

Gly Ser His Pro Val Val Val Ala Pro Tyr Asn Gly Gly Pro Pro Arg
             20                  25                  30

Thr Cys Pro Lys Ile Lys Gln Glu Ala Val Ser Ser Cys Thr His Leu
         35                  40                  45

Gly Ala Gly Pro Pro Leu Ser Asn Gly His Arg Pro Ala Ala His Asp
```

```
     50                  55                  60

Phe Pro Leu Gly Arg Gln Leu Pro Ser Arg Thr Thr Pro Thr Leu Gly
 65                  70                  75                  80

Leu Glu Glu Val Leu Ser Ser Arg Asp Cys His Pro Ala Leu Pro Leu
                85                  90                  95

Pro Pro Gly Phe His Pro His Pro Gly Pro Asn Tyr Pro Ser Phe Leu
            100                 105                 110

Pro Asp Gln Met Gln Pro Gln Val Pro Pro Leu His Tyr Gln Glu Leu
        115                 120                 125

Met Pro Pro Gly Ser Cys Met Pro Glu Glu Pro Lys Pro Lys Arg Gly
    130                 135                 140

Arg Arg Ser Trp Pro Arg Lys Arg Thr Ala Thr His Thr Cys Asp Tyr
145                 150                 155                 160

Ala Gly Cys Gly Lys Thr Tyr Thr Lys Ser Ser His Leu Lys Ala His
            165                 170                 175

Leu Arg Thr His Thr Gly Glu Lys Pro Tyr His Cys Asp Trp Asp Gly
            180                 185                 190

Cys Gly Trp Lys Phe Ala Arg Ser Asp Glu Leu Thr Arg His Tyr Arg
        195                 200                 205

Lys His Thr Gly His Arg Pro Phe Gln Cys Gln Lys Cys Asp Arg Ala
    210                 215                 220

Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg His Phe
225                 230                 235
```

<210> 5891
<211> 269
<212> PRT
<213> Homo sapiens

<400> 5891

```
Leu Val Pro Asn Ser Ala Arg Val Gly Thr Arg Ser Lys Gly Val Cys
  1               5                  10                  15

Val His Gly Asn Ala Glu Tyr Gln Pro Gly Ser Pro Val Tyr Ser Ser
            20                  25                  30

Lys Cys Gln Asp Cys Val Cys Thr Asp Lys Val Asp Asn Asn Thr Leu
        35                  40                  45
```

```
Leu Asn Val Ile Ala Cys Thr His Val Pro Cys Asn Thr Ser Cys Ser
     50                  55                  60

Pro Gly Phe Glu Leu Met Glu Ala Pro Gly Glu Cys Cys Lys Lys Cys
 65                  70                  75                  80

Glu Gln Thr His Cys Ile Ile Lys Arg Pro Asp Asn Gln His Val Ile
                 85                  90                  95

Leu Lys Pro Gly Asp Phe Lys Ser Asp Pro Lys Asn Asn Cys Thr Phe
            100                 105                 110

Phe Ser Cys Val Lys Ile His Asn Gln Leu Ile Ser Ser Val Ser Asn
        115                 120                 125

Ile Thr Cys Pro Asn Phe Asp Ala Ser Ile Cys Ile Pro Gly Ser Ile
    130                 135                 140

Thr Phe Met Pro Asn Gly Cys Cys Lys Thr Cys Thr Pro Arg Asn Glu
145                 150                 155                 160

Thr Arg Val Pro Cys Ser Thr Val Pro Val Thr Thr Glu Val Ser Tyr
                165                 170                 175

Ala Gly Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys
            180                 185                 190

Gly Thr Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser
        195                 200                 205

Cys Ser Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu
    210                 215                 220

Ser Cys Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu
225                 230                 235                 240

Ser Cys Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser
                245                 250                 255

Arg Arg Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly
            260                 265
```

<210> 5892
<211> 227
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5892

```
Ala Cys His Glu Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu Ser
  1               5                  10                  15

Leu Gly Met Thr Val Ala Gly Gly Ala Ser His Arg Xaa Trp Asp Leu
             20                  25                  30

Pro Ile Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile Ser Arg Asp
         35                  40                  45

Gly Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val Asp Gly Val Glu
     50                  55                  60

Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala Leu Leu Lys Arg Thr
 65                  70                  75                  80

Ser Ser Ser Ile Val Leu Lys Ala Leu Glu Val Lys Glu Tyr Glu Pro
                 85                  90                  95

Gln Glu Asp Cys Ser Ser Pro Ala Ala Leu Asp Ser Asn His Asn Met
            100                 105                 110

Ala Pro Pro Ser Asp Trp Ser Pro Ser Trp Val Met Trp Leu Glu Leu
        115                 120                 125

Pro Arg Cys Leu Tyr Asn Cys Lys Asp Ile Val Leu Arg Arg Asn Thr
    130                 135                 140

Ala Gly Ser Leu Gly Phe Cys Ile Val Gly Gly Tyr Glu Glu Tyr Asn
145                 150                 155                 160

Gly Asn Lys Pro Phe Phe Ile Lys Ser Ile Val Glu Gly Thr Pro Ala
                165                 170                 175

Tyr Asn Asp Gly Arg Ile Arg Cys Gly Asp Ile Leu Leu Ala Val Asn
            180                 185                 190

Gly Arg Ser Thr Ser Gly Met Ile His Ala Cys Leu Ala Arg Leu Leu
        195                 200                 205

Lys Glu Leu Lys Gly Arg Ile Thr Leu Thr Ile Val Ser Trp Pro Gly
    210                 215                 220

Thr Phe Leu
225
```

<210> 5893
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5893
Ser Ser His Phe Tyr Ala Lys Gln Glu Xaa Ser Ile Thr Leu Val Leu
1 5 10 15

Met Tyr Thr Leu His Phe Asp Lys Ile Asn Phe Val Val Ser Phe Glu
20 25 30

Val Asp Arg Cys Val Val Val Leu Leu His Phe Leu Leu Phe Cys Val
35 40 45

Trp Ser Cys Ile Pro Glu Thr Asn Glu Ala Leu Gly Tyr Phe Ile Lys
50 55 60

Cys Ser Asp Cys Gln Gln Arg Ala Gly Phe Leu Phe Leu Cys Cys Gly
65 70 75 80

Val Asn Arg Thr Met Val Trp Glu
85

<210> 5894
<211> 571
<212> PRT
<213> Homo sapiens

<400> 5894
Arg Val Arg Ser Lys Val Pro Arg Cys Val Asn Thr Gln Pro Gly Phe
1 5 10 15

His Cys Leu Pro Cys Pro Pro Arg Tyr Arg Gly Asn Gln Pro Val Gly
20 25 30

Val Gly Leu Glu Ala Ala Lys Thr Glu Lys Gln Val Cys Glu Pro Glu
35 40 45

Asn Pro Cys Lys Asp Lys Thr His Asn Cys His Lys His Ala Glu Cys
50 55 60

Ile Tyr Leu Gly His Phe Ser Asp Pro Met Tyr Lys Cys Glu Cys Gln

```
65                  70                  75                  80

Thr Gly Tyr Ala Gly Asp Gly Leu Ile Cys Gly Glu Asp Ser Asp Leu
                85                  90                  95

Asp Gly Trp Pro Asn Leu Asn Leu Val Cys Ala Thr Asn Ala Thr Tyr
            100                 105                 110

His Cys Ile Lys Asp Asn Cys Pro His Leu Pro Asn Ser Gly Gln Glu
        115                 120                 125

Asp Phe Asp Lys Asp Gly Ile Gly Asp Ala Cys Asp Asp Asp Asp Asp
    130                 135                 140

Asn Asp Gly Val Thr Asp Glu Lys Asp Asn Cys Gln Leu Leu Phe Asn
145                 150                 155                 160

Pro Arg Gln Ala Asp Tyr Asp Lys Asp Glu Val Gly Asp Arg Cys Asp
                165                 170                 175

Asn Cys Pro Tyr Val His Asn Pro Ala Gln Ile Asp Thr Asp Asn Asn
            180                 185                 190

Gly Glu Gly Asp Ala Cys Ser Val Asp Ile Asp Gly Asp Asp Val Phe
        195                 200                 205

Asn Glu Arg Asp Asn Cys Pro Tyr Val Tyr Asn Thr Asp Gln Arg Asp
    210                 215                 220

Thr Asp Gly Asp Gly Val Gly Asp His Cys Asp Asn Cys Pro Leu Val
225                 230                 235                 240

His Asn Pro Asp Gln Thr Asp Val Asp Asn Asp Leu Val Gly Asp Gln
                245                 250                 255

Cys Asp Asn Asn Glu Asp Ile Asp Asp Asp Gly His Gln Asn Asn Gln
            260                 265                 270

Asp Asn Cys Pro Tyr Ile Ser Asn Ala Asn Gln Ala Asp His Asp Arg
        275                 280                 285

Asp Gly Gln Gly Asp Ala Cys Asp Pro Asp Asp Asp Asn Asp Gly Val
    290                 295                 300

Pro Asp Asp Arg Asp Asn Cys Arg Leu Val Phe Asn Pro Asp Gln Glu
305                 310                 315                 320

Asp Leu Asp Gly Asp Gly Arg Gly Asp Ile Cys Lys Asp Asp Phe Asp
                325                 330                 335

Asn Asp Asn Ile Pro Asp Ile Asp Asp Val Cys Pro Glu Asn Asn Ala
```

```
            340                 345                 350

Ile Ser Glu Thr Asp Phe Arg Asn Phe Gln Met Val Pro Leu Asp Pro
        355                 360                 365

Lys Gly Thr Thr Gln Ile Asp Pro Asn Trp Val Ile Arg His Gln Gly
    370                 375                 380

Lys Glu Leu Val Gln Thr Ala Asn Ser Asp Pro Gly Ile Ala Val Gly
385                 390                 395                 400

Phe Asp Glu Phe Gly Ser Val Asp Phe Ser Gly Thr Phe Tyr Val Asn
                405                 410                 415

Thr Asp Arg Asp Asp Asp Tyr Ala Gly Phe Val Phe Gly Tyr Gln Ser
            420                 425                 430

Ser Ser Arg Phe Tyr Val Val Met Trp Lys Gln Val Thr Gln Thr Tyr
        435                 440                 445

Trp Glu Asp Gln Pro Thr Arg Ala Tyr Gly Tyr Ser Gly Val Ser Leu
    450                 455                 460

Lys Val Val Asn Ser Thr Thr Gly Thr Gly Glu His Leu Arg Asn Ala
465                 470                 475                 480

Leu Trp His Thr Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His
                485                 490                 495

Asp Pro Arg Asn Ile Gly Trp Lys Asp Tyr Thr Ala Tyr Arg Trp His
            500                 505                 510

Leu Thr His Arg Pro Lys Thr Gly Tyr Ile Arg Val Leu Val His Glu
        515                 520                 525

Gly Lys Gln Val Met Ala Asp Ser Gly Pro Ile Tyr Asp Gln Thr Tyr
    530                 535                 540

Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val Tyr
545                 550                 555                 560

Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Ile
                565                 570
```

<210> 5895
<211> 59
<212> PRT
<213> Homo sapiens

<400> 5895
Asn Phe Leu Asn Glu Met Ile Asn Arg Trp Asn Leu Lys Tyr Ile Leu
1 5 10 15

Leu Gln Lys Arg Phe Leu Ser Leu Leu Tyr Phe Asp Asp Cys Phe Leu
20 25 30

Lys Ile Lys Ile Cys Ser Cys Ser Phe Ile Arg Leu Phe Lys Leu Cys
35 40 45

Phe Pro Leu Ile Phe Phe His His Cys Ile Tyr
50 55

<210> 5896
<211> 176
<212> PRT
<213> Homo sapiens

<400> 5896
Arg Pro Thr Arg Pro Ser Arg Asp Cys Glu Gly Glu Arg Ser Lys Pro
1 5 10 15

Arg Arg Arg Trp Lys Gly Trp Arg Thr His Leu Asn Met Trp Asn Pro
20 25 30

Asn Ala Gly Gln Pro Gly Pro Asn Pro Tyr Pro Pro Asn Ile Gly Cys
35 40 45

Pro Gly Gly Ser Asn Pro Ala His Pro Pro Pro Ile Asn Pro Pro Phe
50 55 60

Pro Pro Gly Pro Cys Pro Pro Pro Pro Gly Ala Pro His Gly Asn Pro
65 70 75 80

Ala Phe Pro Pro Gly Gly Pro Pro His Pro Val Pro Gln Pro Gly Tyr
85 90 95

Pro Gly Cys Gln Pro Leu Gly Pro Tyr Pro Pro Pro Tyr Pro Pro Pro
100 105 110

Ala Pro Gly Ile Pro Pro Val Asn Pro Leu Ala Pro Gly Met Val Gly
115 120 125

Pro Ala Val Ile Val Asp Lys Lys Met Gln Lys Lys Met Lys Lys Ala
130 135 140

His Lys Lys Met His Lys His Gln Lys His His Lys Tyr His Lys His
145 150 155 160

Gly Lys His Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Ser Asp
165 170 175

<210> 5897
<211> 205
<212> PRT
<213> Homo sapiens

<400> 5897
Leu Gly Gly Cys Arg Asp Val Pro Ser Leu Thr Leu Leu Ser Thr Val
1 5 10 15

Ala Gly Ala Leu Ile Ala Asp Phe Leu Ser Gly Leu Val His Trp Gly
20 25 30

Ala Asp Thr Trp Gly Ser Val Glu Leu Pro Ile Val Gly Lys Ala Phe
35 40 45

Ile Arg Pro Phe Arg Glu His His Ile Asp Pro Thr Ala Ile Thr Arg
50 55 60

His Asp Phe Ile Glu Thr Asn Gly Asp Asn Cys Leu Val Thr Leu Leu
65 70 75 80

Pro Leu Leu Asn Met Ala Tyr Lys Phe Arg Thr His Ser Pro Glu Ala
85 90 95

Leu Glu Gln Leu Tyr Pro Trp Glu Cys Phe Val Phe Cys Leu Ile Ile
100 105 110

Phe Gly Thr Phe Thr Asn Gln Ile His Lys Trp Ser His Thr Tyr Phe
115 120 125

Gly Leu Pro Arg Trp Val Thr Leu Leu Gln Asp Trp His Val Ile Leu
130 135 140

Pro Arg Lys His His Arg Ile His His Val Ser Pro His Glu Thr Tyr
145 150 155 160

Phe Cys Ile Thr Thr Gly Trp Leu Asn Tyr Pro Leu Glu Lys Ile Gly
165 170 175

Phe Trp Arg Arg Leu Glu Asp Leu Ile Gln Gly Leu Thr Gly Glu Lys
180 185 190

Pro Arg Ala Asp Asp Met Lys Trp Ala Gln Lys Ile Lys

195 200 205

<210> 5898
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5898
Lys Trp Leu Leu Val Asn Phe Asp Cys Ser Ala Met Trp Val Lys Lys
1 5 10 15

Arg Thr Asp Leu Thr Gly Ala Phe Arg Leu Asp Pro Thr Tyr Leu Lys
20 25 30

His Ser His Gln Asp Ser Gly Leu Ile Thr Asp Tyr Arg His Trp Gln
35 40 45

Ile Pro Leu Gly Arg Arg Phe Arg Ser Leu Lys Met Trp Phe Val Phe
50 55 60

Arg Met Tyr Gly Val Lys Gly Leu Gln Ala Tyr Ile Arg Lys His Val
65 70 75 80

Gln Leu Ser Xaa Xaa Phe Glu Ser Leu Val Arg Gln Gly Ser Pro Leu
85 90 95

<210> 5899
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5899

```
Leu Xaa His Pro Phe Ala Val Thr Ser Tyr Gly Lys Asn Leu Tyr Phe
  1               5                  10                  15

Thr Asp Trp Lys Met Asn Ser Val Val Ala Leu Asp Leu Ala Ile Ser
             20                  25                  30

Lys Glu Thr Asp Ala Phe Gln Pro His Lys Gln Thr Arg Leu Tyr Gly
         35                  40                  45

Ile Thr Thr Ala Leu Ser Gln Cys Pro Gln Gly His Asn Tyr Cys Ser
     50                  55                  60

Val Asn Asn Gly Gly Cys Thr His Leu Cys Leu Ala Thr Pro Gly Ser
 65                  70                  75                  80

Arg Thr Cys Arg Cys Pro Asp Asn Thr Leu Gly Val Asp Cys Ile Glu
                 85                  90                  95

Gln Lys
```

<210> 5900
<211> 48
<212> PRT
<213> Homo sapiens

<400> 5900

```
Glu Ile Ser Ala Phe Leu Ile Ser Ser Asn Tyr Lys Arg Thr Ala Val
  1               5                  10                  15

Phe Phe His Thr His Leu Pro Glu Gly Arg Ile Gly Ser His Ile Tyr
             20                  25                  30

Val Tyr Glu Arg Lys Leu Lys Gly Lys Phe Asn Met Lys Met Lys Phe
         35                  40                  45
```

<210> 5901
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5901
Ser Ser Leu Gly Lys Leu Asp His Gln Xaa Phe Ser Leu Asp Arg Val
1 5 10 15

Ser Leu Val Asn Lys Gly Asp Thr Gly Asn Pro Glu Trp Thr Val Ile
20 25 30

Cys Val Gly Xaa His Ser Gly Ser Gly Ala Ser Asp Thr Leu Xaa Pro
35 40 45

Lys Thr Ala Pro Ser Phe Arg Leu Ala Tyr Glu Met Met Phe Met Cys
50 55 60

Phe Leu Glu Thr Arg Trp Lys Glu Arg Gly Arg Ile Asn Phe Leu Ile
65 70 75 80

Leu Leu Leu Leu Asn Val Met
85

<210> 5902
<211> 83
<212> PRT
<213> Homo sapiens

<400> 5902
Leu Asn Trp Leu Leu Gln Gly Glu Gly Gln Lys Ala Arg Pro Ser Ala
1 5 10 15

Leu Glu Ser Arg Pro Glu Val Ser Gly Lys Leu Thr Leu Lys Met Asp
20 25 30

Thr Pro Gln Pro Ala Leu Pro Phe Gly Leu Pro Arg Ile Ser Phe Ser
35 40 45

```
Gly Cys Ser His Thr Cys Ala Ile Thr Ser Ser Ser Met Thr Trp Thr
     50                  55                  60

Gly Thr Ser Leu Thr Ile Pro Ile Gly Ile Thr Arg Ala Thr Asn Tyr
 65                  70                  75                  80

Ala Val Phe
```

<210> 5903
<211> 269
<212> PRT
<213> Homo sapiens

<400> 5903

```
Arg Arg Cys Cys His Ser Ala Thr Met Phe Glu Ala Arg Leu Val Gln
  1               5                  10                  15

Gly Ser Ile Leu Lys Lys Val Leu Glu Ala Leu Lys Asp Leu Ile Asn
            20                  25                  30

Glu Ala Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met
        35                  40                  45

Asp Ser Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly
     50                  55                  60

Phe Asp Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu
 65                  70                  75                  80

Thr Ser Met Ser Lys Ile Leu Lys Cys Ala Gly Asn Glu Asp Ile Ile
                85                  90                  95

Thr Leu Arg Ala Glu Asp Asn Ala Asp Thr Leu Ala Leu Val Phe Glu
            100                 105                 110

Ala Pro Asn Gln Glu Lys Val Ser Asp Tyr Glu Met Lys Leu Met Asp
        115                 120                 125

Leu Asp Val Glu Gln Leu Gly Ile Pro Glu Gln Glu Tyr Ser Cys Val
    130                 135                 140

Val Lys Met Pro Ser Gly Glu Phe Ala Arg Ile Cys Arg Asp Leu Ser
145                 150                 155                 160

His Ile Gly Asp Ala Val Val Ile Ser Cys Ala Lys Asp Gly Val Lys
                165                 170                 175

Phe Ser Ala Ser Gly Glu Leu Gly Asn Gly Asn Ile Lys Leu Ser Gln
```

```
           180                 185                 190

Thr Ser Asn Val Asp Lys Glu Glu Glu Ala Val Thr Ile Glu Met Asn
        195                 200                 205

Glu Pro Val Gln Leu Thr Phe Ala Leu Arg Tyr Leu Asn Phe Phe Thr
    210                 215                 220

Lys Ala Thr Pro Leu Ser Ser Thr Val Thr Leu Ser Met Ser Ala Asp
225                 230                 235                 240

Val Pro Leu Val Val Glu Tyr Lys Ile Ala Asp Met Gly His Leu Lys
                245                 250                 255

Tyr Tyr Leu Ala Pro Lys Ile Glu Asp Glu Glu Gly Ser
            260                 265
```

<210> 5904
<211> 211
<212> PRT
<213> Homo sapiens

<400> 5904

```
Asn Lys Met Lys Lys Val Arg Leu Lys Glu Leu Glu Ser Arg Leu Gln
  1               5                  10                  15

Gln Val Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Glu Gln Tyr Pro
             20                  25                  30

Thr Arg Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr
         35                  40                  45

Tyr Asp Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys
     50                  55                  60

Gly Val Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val
 65                  70                  75                  80

Gly Phe Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala
                 85                  90                  95

Glu Glu Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys
            100                 105                 110

Leu Leu Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn
        115                 120                 125

Pro Pro Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu
    130                 135                 140
```

```
Lys Thr Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys
145                 150                 155                 160

Ser Ser Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile
                165                 170                 175

Lys Ile Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr
            180                 185                 190

Lys Phe His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg
        195                 200                 205

Phe Ser Phe
    210
```

<210> 5905
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5905

```
Lys Phe Leu Leu Lys Val Asn Phe Pro Glu Asn Gly Phe Leu Ser Pro
  1               5                  10                  15

Asp Lys Leu Ser Leu Leu Glu Lys Leu Leu Pro Glu Arg Lys Glu Val
             20                  25                  30

Glu Glu Thr Asp Glu Met Asp Gln Val Glu Leu Val Asp Phe Asp Pro
         35                  40                  45

Asn Gln Glu Arg Arg Arg His Tyr Asn Gly Glu Ala Tyr Glu Asp Asp
     50                  55                  60

Glu His His Pro Arg Gly Gly Val Gln Cys Gln Thr Ser
 65                  70                  75
```

<210> 5906
<211> 142
<212> PRT
<213> Homo sapiens

<400> 5906

```
Ser Trp Glu Thr Glu Lys Met Gln Thr Ala Gly Ala Leu Phe Ile Ser
  1               5                  10                  15

Pro Ala Leu Ile Arg Cys Cys Thr Arg Gly Leu Ile Arg Pro Val Ser
```

```
            20                  25                  30

Ala Ser Phe Leu Asn Ser Pro Val Asn Ser Ser Lys Gln Pro Ser Tyr
         35                  40                  45

Ser Asn Phe Pro Leu Gln Val Ala Arg Arg Glu Phe Gln Thr Ser Val
     50                  55                  60

Val Ser Arg Asp Ile Asp Thr Ala Ala Lys Phe Ile Gly Ala Gly Ala
 65                  70                  75                  80

Ala Thr Val Gly Val Ala Gly Ser Gly Ala Gly Ile Gly Thr Val Phe
                 85                  90                  95

Gly Ser Leu Ile Ile Gly Tyr Ala Arg Asn Pro Ser Leu Lys Gln Gln
            100                 105                 110

Leu Phe Ser Tyr Ala Ile Leu Gly Phe Ala Leu Ser Glu Ala Met Gly
        115                 120                 125

Leu Phe Cys Leu Met Val Ala Phe Leu Ile Leu Phe Ala Met
    130                 135                 140



<210> 5907
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5907
Thr Cys Pro Phe Leu Gln Glu Phe Ser Leu Gly Met Trp Ser Cys Leu
  1               5                  10                  15

His Ala Val Leu Glu Leu Ile Asp Ser Gln Gln Gln Asp Arg Tyr Trp
            20                  25                  30

Cys Pro Pro Xaa Leu His Arg Ala Ala Ile Ala Phe Leu His Ala Leu
         35                  40                  45

Trp Gln Asp Arg Arg Asp Ser Ala Met Leu Val Leu Arg Thr Lys
     50                  55                  60



<210> 5908
```

<211> 61
<212> PRT
<213> Homo sapiens

<400> 5908
Arg Asn Lys Gly Val Arg Ala Asn Ile Gln Gln Leu Leu Ser Pro Val
1 5 10 15

Met Lys Phe Ile Gln Thr Lys Asp Gly Met Ser Leu Tyr Ile Ile Pro
20 25 30

Cys Asn Lys Tyr Ser Val Lys Leu Cys Trp Cys Asn Leu Thr Cys Phe
35 40 45

Cys Gln Ser Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
50 55 60

<210> 5909
<211> 466
<212> PRT
<213> Homo sapiens

<400> 5909
Val Ser Pro Arg Ala Gly Gly Ala Gly Asn Asn Arg Gly Arg Ala His
1 5 10 15

Arg Ala Ser Ser Cys Ser Leu Pro Ala Pro Pro Ala Thr Leu Asp Pro
20 25 30

Arg Ile Pro Pro Ala Arg Leu Pro Ala Met Ala Asp Lys Glu Ala Ala
35 40 45

Phe Asp Asp Ala Val Glu Glu Arg Val Ile Asn Glu Glu Tyr Lys Ile
50 55 60

Trp Lys Lys Asn Thr Pro Phe Leu Tyr Asp Leu Val Met Thr His Ala
65 70 75 80

Leu Glu Trp Pro Ser Leu Thr Ala Gln Trp Leu Pro Asp Val Thr Arg
85 90 95

Pro Glu Gly Lys Asp Phe Ser Ile His Arg Leu Val Leu Gly Thr His
100 105 110

Thr Ser Asp Glu Gln Asn His Leu Val Ile Ala Ser Val Gln Leu Pro
115 120 125

Asn Asp Asp Ala Gln Phe Asp Ala Ser His Tyr Asp Ser Glu Lys Gly
130 135 140

```
Glu Phe Gly Gly Phe Gly Ser Val Ser Gly Lys Ile Glu Ile Glu Ile
145                 150                 155                 160

Lys Ile Asn His Glu Gly Glu Val Asn Arg Ala Arg Tyr Met Pro Gln
                165                 170                 175

Asn Pro Cys Ile Ile Ala Thr Lys Thr Pro Ser Ser Asp Val Leu Val
            180                 185                 190

Phe Asp Tyr Thr Lys His Pro Ser Lys Pro Asp Pro Ser Gly Glu Cys
        195                 200                 205

Asn Pro Asp Leu Arg Leu Arg Gly His Gln Lys Glu Gly Tyr Gly Leu
    210                 215                 220

Ser Trp Asn Pro Asn Leu Ser Gly His Leu Leu Ser Ala Ser Asp Asp
225                 230                 235                 240

His Thr Ile Cys Leu Trp Asp Ile Ser Ala Val Pro Lys Glu Gly Lys
                245                 250                 255

Val Val Asp Ala Lys Thr Ile Phe Thr Gly His Thr Ala Val Val Glu
            260                 265                 270

Asp Val Ser Trp His Leu Leu His Glu Ser Leu Phe Gly Ser Val Ala
        275                 280                 285

Asp Asp Gln Lys Leu Met Ile Trp Asp Thr Arg Ser Asn Asn Thr Ser
    290                 295                 300

Lys Pro Ser His Ser Val Asp Ala His Thr Ala Glu Val Asn Cys Leu
305                 310                 315                 320

Ser Phe Asn Pro Tyr Ser Glu Phe Ile Leu Ala Thr Gly Ser Ala Asp
                325                 330                 335

Lys Thr Val Ala Leu Trp Asp Leu Arg Asn Leu Lys Leu Lys Leu His
            340                 345                 350

Ser Phe Glu Ser His Lys Asp Glu Ile Phe Gln Val Gln Trp Ser Pro
        355                 360                 365

His Asn Glu Thr Ile Leu Ala Ser Ser Gly Thr Asp Arg Arg Leu Asn
    370                 375                 380

Val Trp Asp Leu Ser Lys Ile Gly Glu Glu Gln Ser Pro Glu Asp Ala
385                 390                 395                 400

Glu Asp Gly Pro Pro Glu Leu Leu Phe Ile His Gly Gly His Thr Ala
                405                 410                 415
```

```
Lys Ile Ser Asp Phe Ser Trp Asn Pro Asn Glu Pro Trp Val Ile Cys
            420                 425                 430

Ser Val Ser Glu Asp Asn Ile Met Gln Val Trp Gln Met Ala Glu Asn
        435                 440                 445

Ile Tyr Asn Asp Glu Asp Pro Glu Gly Ser Val Asp Pro Glu Gly Gln
    450                 455                 460

Gly Ser
465
```

<210> 5910
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5910

```
Leu Leu Pro His Pro Phe Ser Cys Val His Val Ala Phe Ser Asn Pro
  1               5                  10                  15

Gly Gln Trp Phe Leu Pro Arg Pro Cys Thr Glu Ala Gly Cys Leu Pro
             20                  25                  30

Asp Pro Arg Arg Val Arg Glu Gly Arg Gly Ile Leu Leu Leu Glu Leu
         35                  40                  45

Gln Ala Leu Ala Glu Ala Val Ser His Thr Val Val Ser Ser Ala Trp
     50                  55                  60

Ala Gly Thr
 65
```

<210> 5911
<211> 212
<212> PRT
<213> Homo sapiens

<400> 5911

```
Glu Ile Ile Thr Asp Arg Gln Ser Gly Lys Lys Arg Gly Phe Gly Phe
  1               5                  10                  15

Val Thr Phe Asp Asp His Asp Pro Val Asp Lys Ile Val Leu Gln Lys
             20                  25                  30

Tyr His Thr Ile Asn Gly His Asn Ala Glu Val Arg Lys Ala Leu Ser
```

```
         35                  40                  45

Arg Gln Glu Met Gln Glu Val Gln Ser Ser Arg Ser Gly Arg Gly Gly
     50                  55                  60

Asn Phe Gly Phe Gly Asp Ser Arg Gly Gly Gly Gly Asn Phe Gly Pro
 65                  70                  75                  80

Gly Pro Gly Ser Asn Phe Arg Gly Gly Ser Asp Gly Tyr Gly Ser Gly
                 85                  90                  95

Arg Gly Phe Gly Asp Gly Tyr Asn Gly Tyr Gly Gly Gly Pro Gly Gly
            100                 105                 110

Gly Asn Phe Gly Gly Ser Pro Gly Tyr Gly Gly Gly Arg Gly Gly Tyr
        115                 120                 125

Gly Gly Gly Gly Pro Gly Tyr Gly Asn Gln Gly Gly Gly Tyr Gly Gly
    130                 135                 140

Gly Tyr Asp Asn Tyr Gly Gly Gly Asn Tyr Gly Ser Gly Asn Tyr Asn
145                 150                 155                 160

Asp Phe Gly Asn Tyr Asn Gln Gln Pro Ser Asn Tyr Gly Pro Met Lys
                165                 170                 175

Ser Gly Asn Phe Gly Gly Ser Arg Asn Met Gly Gly Pro Tyr Gly Gly
            180                 185                 190

Gly Asn Tyr Gly Pro Gly Gly Ser Gly Gly Ser Gly Gly Tyr Gly Gly
        195                 200                 205

Arg Ser Arg Tyr
    210
```

<210> 5912
<211> 385
<212> PRT
<213> Homo sapiens

```
<400> 5912
His Leu Glu Pro Ala Gln Leu Val Ser Lys Lys His Lys Leu Arg Ser
  1               5                  10                  15

Gln Lys Arg Pro Arg Arg Cys Leu Trp Leu His Gln Ser Ser Arg Arg
             20                  25                  30

Thr Trp Leu Gly Pro Arg Arg Gly His Pro Leu Cys Arg Cys Pro Pro
         35                  40                  45
```

```
Arg Arg Pro Trp Leu Trp Leu Asp Arg Ser Gln Lys Leu Thr Ser Ser
     50                  55                  60

Ala Ser Ser Pro Ser Gln Pro Tyr Ser Val Gln Pro Leu His Leu Pro
 65                  70                  75                  80

Asp Gly Trp Ala Asp Pro Ala Gly Leu Arg Leu Arg Gly Val Phe Leu
                 85                  90                  95

Cys Leu Pro Arg Val Leu Gln Arg Arg Cys Pro Pro Gly Val Pro Asn
            100                 105                 110

Thr Ser Arg Ala Val Gln Glu Ala Ser Gly Arg Gly Arg Ala Ala Arg
        115                 120                 125

His Arg Asn Ser Leu Gln Arg Pro Cys Ser Arg Ser Gln Ser Pro Gly
    130                 135                 140

Gly Glu Glu Gly Met Ala Arg Ala Tyr Ala Val Val Cys Asp Cys Lys
145                 150                 155                 160

Leu Phe Leu Tyr Asp Leu Pro Glu Gly Lys Ser Thr Gln Pro Gly Val
                165                 170                 175

Ile Ala Ser Gln Val Leu Asp Leu Arg Asp Asp Glu Phe Ser Val Ser
            180                 185                 190

Ser Val Leu Ala Ser Asp Val Ile His Ala Thr Arg Arg Asp Ile Pro
        195                 200                 205

Cys Ile Phe Arg Val Thr Ala Ser Leu Leu Gly Ala Pro Ser Lys Thr
    210                 215                 220

Ser Ser Leu Leu Ile Leu Thr Glu Asn Glu Asn Glu Lys Arg Lys Trp
225                 230                 235                 240

Val Gly Ile Leu Glu Gly Leu Gln Ser Ile Leu His Lys Asn Arg Leu
                245                 250                 255

Arg Asn Gln Val Val His Val Pro Leu Glu Ala Tyr Asp Ser Ser Leu
            260                 265                 270

Pro Leu Ile Lys Ala Ile Leu Thr Ala Ala Ile Val Asp Ala Asp Arg
        275                 280                 285

Ile Ala Val Gly Leu Glu Glu Gly Leu Tyr Val Ile Glu Val Thr Arg
    290                 295                 300

Asp Val Ile Val Arg Ala Ala Asp Cys Lys Lys Val His Gln Ile Glu
305                 310                 315                 320
```

```
Leu Ala Pro Arg Glu Lys Ile Val Ile Leu Leu Cys Gly Arg Asn His
                325                 330                 335

His Val His Leu Tyr Pro Trp Ser Ser Leu Asp Gly Ala Glu Gly Ser
            340                 345                 350

Phe Asp Ile Lys Leu Pro Glu Thr Lys Gly Cys Gln Leu Met Ala Thr
        355                 360                 365

Ala Thr Leu Lys Arg Asn Ser Gly Thr Cys Leu Phe Val Ala Val Lys
    370                 375                 380

Arg
385
```

<210> 5913
<211> 39
<212> PRT
<213> Homo sapiens

<400> 5913

```
Thr Gln Ser Lys Trp Arg Leu Glu Val Gln Cys Gly Lys Glu Lys Gln
  1               5                  10                  15

Val Phe Ile Glu Ser Thr Asn Ser Thr Pro Phe Ile Asp Thr Glu Asn
             20                  25                  30

Val Glu Asn Pro Lys Phe Asp
         35
```

<210> 5914
<211> 321
<212> PRT
<213> Homo sapiens

<400> 5914

```
Glu Arg Thr Leu Gly Gln Pro Gly Phe Leu Gly Cys Pro Arg Gln Pro
  1               5                  10                  15

His Thr Ala Met His Tyr Pro Thr Ala Leu Leu Phe Leu Ile Leu Ala
             20                  25                  30

Asn Gly Ala Gln Ala Phe Arg Ile Cys Ala Phe Asn Ala Gln Arg Leu
         35                  40                  45

Thr Leu Ala Lys Val Ala Arg Glu Gln Val Met Asp Thr Leu Val Arg
```

```
     50                  55                  60

Ile Leu Ala Arg Cys Asp Ile Met Val Leu Gln Glu Val Val Asp Ser
 65                  70                  75                  80

Ser Gly Ser Ala Ile Pro Leu Leu Leu Arg Glu Leu Asn Arg Phe Asp
                85                  90                  95

Gly Ser Gly Pro Tyr Ser Thr Leu Ser Ser Pro Gln Leu Gly Arg Ser
            100                 105                 110

Thr Tyr Met Glu Thr Tyr Val Tyr Phe Tyr Arg Ser His Lys Thr Gln
        115                 120                 125

Val Leu Ser Ser Tyr Val Tyr Asn Asp Glu Asp Asp Val Phe Ala Arg
    130                 135                 140

Glu Pro Phe Val Ala Gln Phe Ser Leu Pro Ser Asn Val Leu Pro Ser
145                 150                 155                 160

Leu Val Leu Val Pro Leu His Thr Thr Pro Lys Ala Val Glu Lys Glu
                165                 170                 175

Leu Asn Ala Leu Tyr Asp Val Phe Leu Glu Val Ser Gln His Trp Gln
            180                 185                 190

Ser Lys Asp Val Ile Leu Leu Gly Asp Phe Asn Ala Asp Cys Ala Ser
        195                 200                 205

Leu Thr Lys Lys Arg Leu Asp Lys Leu Glu Leu Arg Thr Glu Pro Gly
    210                 215                 220

Phe His Trp Val Ile Ala Asp Gly Glu Asp Thr Thr Val Arg Ala Ser
225                 230                 235                 240

Thr His Cys Thr Tyr Asp Arg Val Val Leu His Gly Glu Arg Cys Arg
                245                 250                 255

Ser Leu Leu His Thr Ala Ala Ala Phe Asp Phe Pro Thr Ser Phe Gln
            260                 265                 270

Leu Thr Glu Glu Glu Ala Leu Asn Ile Ser Asp His Tyr Pro Val Glu
        275                 280                 285

Val Glu Leu Lys Leu Ser Gln Ala His Ser Val Gln Pro Leu Ser Leu
    290                 295                 300

Thr Val Leu Leu Leu Leu Ser Leu Leu Ser Pro Gln Leu Cys Pro Ala
305                 310                 315                 320

Ala
```

<210> 5915
<211> 38
<212> PRT
<213> Homo sapiens

<400> 5915
Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Glu Asn Arg Pro Val Pro
1 5 10 15

Pro His Arg Ser Ser Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro
20 25 30

Cys Trp Pro Gly Trp Ser
35

<210> 5916
<211> 359
<212> PRT
<213> Homo sapiens

<400> 5916
Ile Asn Leu Glu Glu Val Gly Thr Ile Cys Leu Gly Phe Phe Lys Ser
1 5 10 15

Ser Thr Asn Leu Ser Glu Phe Val Met Arg Lys Ile Gly Asp Leu Ala
20 25 30

Cys Ala Asn Ile Gln His Leu Ser Ser Arg Ser Leu Val Asn Ile Val
35 40 45

Lys Met Phe Arg Phe Thr His Val Asp His Ile Asn Phe Met Lys Gln
50 55 60

Ile Gly Glu Ile Ala Pro Gln Arg Ile Pro Ser Leu Gly Val Gln Gly
65 70 75 80

Val Met His Leu Thr Leu Tyr Cys Ser Ala Leu Arg Phe Leu Asn Glu
85 90 95

Gly Val Met Asn Ala Val Ala Ala Ser Leu Pro Pro Arg Val Ala His
100 105 110

Cys Arg Ser Lys Asp Val Ala Lys Ile Leu Trp Ser Phe Gly Thr Leu
115 120 125

```
Asn Tyr Lys Pro Pro Asn Ala Glu Glu Phe Tyr Ser Ser Leu Ile Ser
    130                 135                 140

Glu Ile His Arg Lys Met Pro Glu Phe Asn Gln Tyr Pro Glu His Leu
145                 150                 155                 160

Pro Thr Cys Leu Leu Gly Leu Ala Phe Leu Glu Tyr Phe Pro Val Glu
                165                 170                 175

Leu Ile Asp Phe Ala Leu Ser Pro Gly Phe Val Arg Leu Ala Gln Glu
            180                 185                 190

Arg Thr Lys Phe Asp Leu Leu Lys Glu Leu Tyr Thr Leu Asp Gly Thr
        195                 200                 205

Val Gly Ile Glu Cys Pro Asp Tyr Arg Gly Asn Arg Leu Ser Thr His
    210                 215                 220

Leu Gln Gln Glu Gly Ser Glu Leu Leu Trp Tyr Leu Ala Glu Lys Asp
225                 230                 235                 240

Met Asn Ser Lys Pro Glu Phe Leu Glu Thr Val Phe Leu Leu Glu Thr
                245                 250                 255

Met Leu Gly Gly Pro Gln Tyr Val Lys His His Met Ile Leu Pro His
            260                 265                 270

Thr Arg Ser Ser Asp Leu Glu Val Gln Leu Asp Val Asn Leu Lys Pro
        275                 280                 285

Leu Pro Phe Asn Arg Glu Ala Thr Pro Ala Glu Asn Val Ala Lys Leu
    290                 295                 300

Arg Leu Glu His Val Gly Val Ser Leu Thr Asp Asp Leu Met Asn Lys
305                 310                 315                 320

Leu Leu Lys Gly Lys Ala Arg Gly His Phe Gln Gly Lys Thr Glu Ser
                325                 330                 335

Glu Pro Gly Gln Gln Pro Trp Ser Trp Arg Ile Arg Gln Leu Tyr Leu
            340                 345                 350

Trp Gly Ala Ser Phe Ala Met
        355
```

<210> 5917
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5917
Phe Gly Leu Phe Cys Thr Leu Tyr Lys Trp Thr His Ile Met Phe Ile
1 5 10 15

Phe Trp Val Cys Leu Leu Ser Phe Asn Ile Arg Phe Val Gly Ser Ser
20 25 30

Leu Leu Cys Val Val Leu Ser Cys Ser Leu Tyr Ser Val Pro Lys Tyr
35 40 45

Ser Ile Leu Gln Phe Thr His Ser Thr Leu Asp Ser Lys Cys Phe His
50 55 60

Ile Trp Ala Ile Thr Asn Ser Ala Ala Val Asn Ile His Ile His Ile
65 70 75 80

Phe Trp

<210> 5918
<211> 111
<212> PRT
<213> Homo sapiens

<400> 5918
Ala Phe Leu Pro Ala Gly Pro Ser Gly Phe Pro Ser Gly Pro Gly Cys
1 5 10 15

Val Trp Lys Cys His Leu Gly Ala Arg Ala Trp Met Ser Ala Ser Gly
20 25 30

Leu Cys Leu Ala Pro Tyr Pro Thr Val Ala Glu Leu Val Tyr Lys Leu
35 40 45

Gln Asp Ser Leu Leu Tyr Ser Ser Ser Ser Ser Pro Val Ala Glu Arg
50 55 60

Arg Asn Leu Ser Gln Ser Cys Glu Leu Tyr Cys Leu Gly Leu Gly Glu
65 70 75 80

Gly Trp His Lys His Ser Leu Ser His Pro Gly Trp Cys Leu Thr Asn
85 90 95

Leu Cys Ala Pro Gln Val His Trp Leu Gln Gly Gln Arg Ser Thr
100 105 110

<210> 5919
<211> 441
<212> PRT
<213> Homo sapiens

<400> 5919

```
Arg Arg Arg Arg Ala Cys Arg Ser Ala Glu Gly Thr Gly Leu Arg Ser
  1               5                  10                  15

Leu Leu Leu Pro Pro Arg Leu Gln Leu Pro Ala Gly Pro Phe Ser Arg
             20                  25                  30

Cys Arg Trp Asp Pro Val Ser Ser Pro Arg Pro Ser Thr Met Pro Pro
         35                  40                  45

Lys Lys Gly Gly Asp Gly Ile Lys Pro Pro Pro Ile Ile Gly Arg Phe
     50                  55                  60

Gly Thr Ser Leu Lys Ile Gly Ile Val Gly Leu Pro Asn Val Gly Lys
 65                  70                  75                  80

Ser Thr Phe Phe Asn Val Leu Thr Asn Ser Gln Ala Ser Ala Glu Asn
                 85                  90                  95

Phe Pro Phe Cys Thr Ile Asp Pro Asn Glu Ser Arg Val Pro Val Pro
            100                 105                 110

Asp Glu Arg Phe Asp Phe Leu Cys Gln Tyr His Lys Pro Ala Ser Lys
        115                 120                 125

Ile Pro Ala Phe Leu Asn Val Val Asp Ile Ala Gly Leu Val Lys Gly
    130                 135                 140

Ala His Asn Gly Gln Gly Leu Gly Asn Ala Phe Leu Ser His Ile Ser
145                 150                 155                 160

Ala Cys Asp Gly Ile Phe His Leu Thr Arg Ala Phe Glu Asp Asp Asp
                165                 170                 175

Ile Thr His Val Glu Gly Ser Val Asp Pro Ile Arg Asp Ile Glu Ile
            180                 185                 190

Ile His Glu Glu Leu Gln Leu Lys Asp Glu Glu Met Ile Gly Pro Ile
        195                 200                 205

Ile Asp Lys Leu Glu Lys Val Ala Val Arg Gly Gly Asp Lys Lys Leu
    210                 215                 220

Lys Pro Glu Tyr Asp Ile Met Cys Lys Val Lys Ser Trp Val Ile Asp
225                 230                 235                 240
```

```
Gln Lys Lys Pro Val Arg Phe Tyr His Asp Trp Asn Asp Lys Glu Ile
               245                 250                 255

Glu Val Leu Asn Lys His Leu Phe Leu Thr Ser Lys Pro Met Val Tyr
            260                 265                 270

Leu Val Asn Leu Ser Glu Lys Asp Tyr Ile Arg Lys Lys Asn Lys Trp
        275                 280                 285

Leu Ile Lys Ile Lys Glu Trp Val Asp Lys Tyr Asp Pro Gly Ala Leu
    290                 295                 300

Val Ile Pro Phe Ser Gly Ala Leu Glu Leu Lys Leu Gln Glu Leu Ser
305                 310                 315                 320

Ala Glu Glu Arg Gln Lys Tyr Leu Glu Ala Asn Met Thr Gln Ser Ala
                325                 330                 335

Leu Pro Lys Ile Ile Lys Ala Gly Phe Ala Ala Leu Gln Leu Glu Tyr
            340                 345                 350

Phe Phe Thr Ala Gly Pro Asp Glu Val Arg Ala Trp Thr Ile Arg Lys
        355                 360                 365

Gly Thr Lys Ala Pro Gln Ala Ala Gly Lys Ile His Thr Asp Phe Glu
    370                 375                 380

Lys Gly Phe Ile Met Ala Glu Val Met Lys Tyr Glu Asp Phe Lys Glu
385                 390                 395                 400

Glu Gly Ser Glu Asn Ala Val Lys Ala Ala Gly Lys Tyr Arg Gln Gln
                405                 410                 415

Gly Arg Asn Tyr Ile Val Glu Asp Gly Asp Ile Ile Phe Phe Lys Phe
            420                 425                 430

Asn Thr Pro Gln Gln Pro Lys Lys Lys
        435                 440
```

<210> 5920
<211> 275
<212> PRT
<213> Homo sapiens

<400> 5920

```
Gly Val Ala Leu Phe Lys Ser Ala Ala Gly Asp Gln Pro Thr Ala Ala
  1               5                  10                  15

Cys Ile Cys Ile Gln Arg Gln Val Pro Pro Val Pro Ala Ala Arg Ala
```

```
            20                  25                  30

Pro Gln Ser Arg Thr Arg Ser Ala Gln Ala Lys Leu Ala Leu Thr Met
         35                  40                  45

Pro Val Lys Gly Gly Thr Lys Cys Ile Lys Tyr Leu Leu Phe Gly Phe
     50                  55                  60

Asn Phe Ile Phe Trp Leu Ala Gly Ile Ala Val Leu Ala Ile Gly Leu
 65                  70                  75                  80

Trp Leu Arg Phe Asp Ser Gln Thr Lys Ser Ile Phe Glu Gln Glu Thr
                 85                  90                  95

Asn Asn Asn Asn Ser Ser Phe Tyr Thr Gly Val Tyr Ile Leu Ile Gly
            100                 105                 110

Ala Gly Ala Leu Met Met Leu Val Gly Phe Leu Gly Cys Cys Gly Ala
        115                 120                 125

Val Gln Glu Ser Gln Cys Met Leu Gly Leu Phe Phe Gly Phe Leu Leu
    130                 135                 140

Val Ile Phe Ala Ile Glu Ile Ala Ala Ala Ile Trp Gly Tyr Ser His
145                 150                 155                 160

Lys Asp Glu Val Ile Lys Glu Val Gln Glu Phe Tyr Lys Asp Thr Tyr
                165                 170                 175

Asn Lys Leu Lys Thr Lys Asp Glu Pro Gln Arg Glu Thr Leu Lys Ala
            180                 185                 190

Ile His Tyr Ala Leu Asn Cys Cys Gly Leu Ala Gly Gly Val Glu Gln
        195                 200                 205

Phe Ile Ser Asp Ile Cys Pro Lys Lys Asp Val Leu Glu Thr Phe Thr
    210                 215                 220

Val Lys Ser Cys Pro Asp Ala Ile Lys Glu Val Phe Asp Asn Lys Phe
225                 230                 235                 240

His Ile Ile Gly Ala Val Gly Ile Gly Ile Ala Val Val Met Ile Phe
                245                 250                 255

Gly Met Ile Phe Ser Met Ile Leu Cys Cys Ala Ile Arg Arg Asn Arg
            260                 265                 270

Glu Met Val
        275
```

<210> 5921
<211> 115
<212> PRT
<213> Homo sapiens

<400> 5921
Val Gly Cys Arg Pro Leu Ser Ser Cys His Leu Leu Ala Val Ala Arg
1 5 10 15

Ser Tyr Phe Ser Leu Ser Gly Val Ile Cys Ile Trp Arg Phe His Cys
20 25 30

Cys Phe Ser Leu Ser Tyr Leu Glu Trp Asn Pro Glu Ser Cys Pro Phe
35 40 45

Pro Pro Thr Cys Ser Tyr Leu Lys Ala Pro Glu Thr Tyr Trp Val Pro
50 55 60

Asp Ser Cys Phe Val Cys Ile Arg Arg Val Val Ala Cys His Leu Ala
65 70 75 80

Cys Phe Leu Asn Asn Pro Thr Ser Cys Pro Pro Cys Thr Tyr Ile Ala
85 90 95

Thr Ala Leu Ile Trp Ala Phe Phe Phe Leu Gly Gln Cys Leu Cys Pro
100 105 110

Asn Ser Glu
115

<210> 5922
<211> 291
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (217)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5922
His Gly Leu Cys Arg Leu Phe Asn Ser Pro Leu Lys Pro Leu Ala Asp
1 5 10 15

```
Leu Asp Pro Val Val Val Thr Phe Trp Tyr Arg Ala Pro Glu Leu Leu
            20                  25                  30

Leu Gly Ala Arg His Tyr Thr Lys Ala Ile Asp Ile Trp Ala Ile Gly
        35                  40                  45

Cys Ile Phe Ala Glu Leu Leu Thr Ser Glu Pro Xaa Phe His Cys Arg
    50                  55                  60

Gln Glu Asp Ile Lys Thr Ser Asn Pro Tyr His His Asp Gln Leu Asp
65                  70                  75                  80

Arg Ile Phe Asn Val Met Gly Phe Pro Ala Asp Lys Asp Trp Glu Asp
                85                  90                  95

Ile Lys Lys Met Pro Glu His Ser Thr Leu Met Lys Asp Phe Arg Arg
            100                 105                 110

Asn Thr Tyr Thr Asn Cys Ser Leu Ile Lys Tyr Met Glu Lys His Lys
        115                 120                 125

Val Lys Pro Asp Ser Lys Ala Phe His Leu Leu Gln Lys Leu Leu Thr
    130                 135                 140

Met Asp Pro Ile Lys Arg Ile Thr Ser Glu Gln Ala Met Gln Asp Pro
145                 150                 155                 160

Tyr Phe Leu Glu Asp Pro Leu Pro Thr Ser Asp Val Phe Ala Gly Cys
                165                 170                 175

Gln Ile Pro Tyr Pro Lys Arg Glu Phe Leu Thr Glu Glu Glu Pro Asp
            180                 185                 190

Asp Lys Gly Asp Lys Lys Asn Gln Gln Gln Gln Gly Asn Asn His
        195                 200                 205

Thr Asn Gly Thr Gly His Pro Gly Xaa Gln Asp Ser Ser His Thr Gln
    210                 215                 220

Gly Pro Pro Leu Lys Lys Val Arg Val Val Pro Pro Thr Thr Thr Ser
225                 230                 235                 240

Gly Gly Leu Ile Met Thr Ser Asp Tyr Gln Arg Ser Asn Pro His Ala
                245                 250                 255

Ala Tyr Pro Asn Pro Gly Pro Ser Thr Ser Gln Pro Gln Ser Ser Met
            260                 265                 270

Gly Tyr Ser Ala Thr Ser Gln Gln Pro Pro Gln Tyr Ser His Gln Thr
        275                 280                 285
```

His Arg Tyr
290

<210> 5923
<211> 100
<212> PRT
<213> Homo sapiens

<400> 5923
Arg Pro Pro Ser Arg Trp Ser Trp Trp Gln Gly Lys Pro Thr Gly Gly
1 5 10 15

Val Cys Val Ala Ala Ala Arg Ser Ser Pro Ser Val Thr Ala Pro Thr
20 25 30

Ser Ser Asn Ala Leu Ala Tyr Leu His Ser Ser Ser Arg Pro Lys Arg
35 40 45

Pro Ala Trp Trp His Ser Val Pro Ala Arg Pro Leu Arg Gly Pro Arg
50 55 60

Thr Ala Met Ala Pro Thr Gly Val Ser Ala Cys Arg Arg Gln Lys Trp
65 70 75 80

Ala Pro His Ser Glu Gly Ala Ala Ala Val Gln Pro Gln Val Ala Leu
85 90 95

Ala Pro Gly Leu
100

<210> 5924
<211> 241
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5924

```
Tyr Arg Pro Gly Pro Leu Thr Ser Gln Gly Met Asn Xaa Ser Arg Gln
 1               5                  10                  15

Xaa Pro Xaa Leu Asn Leu Leu Pro Ser Ser Ala His Phe Arg Pro Ser
            20                  25                  30

Thr Tyr Lys Lys Ser Ser Gly Pro Leu Lys Ala Xaa Lys Leu Ile Ile
        35                  40                  45

His Trp Asn Cys Trp Glu Asp Ser Leu Ser Gly Ile Ala Met Asn Val
    50                  55                  60

Pro Ala Ser Arg Gly Ser Asn Leu Asn Ser Ser Gly Ala Asn Arg Thr
65                  70                  75                  80

Ser Leu Ser Gly Gly Thr Gly Ser Gly Thr Gln Gly Ala Thr Lys Pro
                85                  90                  95

Leu Ser Thr Pro His Arg Pro Ser Thr Ala Ser Gly Ser Ser Val Val
            100                 105                 110

Thr Ala Ser Val Gln Lys Leu Ile His Thr Glu Asp Pro Phe Asn Asp
        115                 120                 125

Glu His Gln Glu Arg Gln Glu Val Glu Met Leu Ala Lys Lys Phe Glu
    130                 135                 140

Met Lys Tyr Tyr Asp Glu Leu Val Pro Ala Ser Leu Thr Thr Lys Tyr
145                 150                 155                 160

Gly Gly Phe Tyr Ile Asn Thr Gly Thr Leu Gln Phe Arg Gln Ala Ser
                165                 170                 175

Asp Thr Glu Glu Asp Asp Ile Thr Asp Asn Gln Lys His Lys Pro Pro
            180                 185                 190

Lys Val Pro Lys Ile Lys Glu Asp Asp Ile Glu Met Lys Lys Arg Lys
        195                 200                 205

Arg Lys Glu Glu Gly Glu Lys Glu Lys Lys Pro Arg Lys Lys Val Pro
    210                 215                 220
```

```
Lys Gln Leu Gly Val Val Ala Leu Asn Ser His Lys Ser Glu Lys Lys
225                 230                 235                 240

Lys
```

<210> 5925
<211> 330
<212> PRT
<213> Homo sapiens

<400> 5925

```
Ala Gly Ser Arg Cys Pro Ala Trp Arg Ala Arg Ser Ala Cys Arg Trp
  1               5                  10                  15

Pro Leu Ala Arg Cys Ser Ser Pro Gly Cys Asp Ser Gly Phe Gly Lys
             20                  25                  30

Glu Thr Ala Lys Lys Leu Asp Ser Met Gly Phe Thr Val Leu Ala Thr
         35                  40                  45

Val Leu Glu Leu Asn Ser Pro Gly Ala Ile Glu Leu Arg Thr Cys Cys
     50                  55                  60

Ser Pro Arg Leu Arg Leu Leu Gln Met Asp Leu Thr Lys Pro Gly Asp
 65                  70                  75                  80

Ile Ser Arg Val Leu Glu Phe Thr Lys Ala His Thr Thr Ser Thr Gly
                 85                  90                  95

Leu Trp Gly Leu Val Asn Asn Ala Gly His Asn Glu Val Val Ala Asp
            100                 105                 110

Ala Glu Leu Ser Pro Val Ala Thr Phe Arg Ser Cys Met Glu Val Asn
        115                 120                 125

Phe Phe Gly Ala Leu Glu Leu Thr Lys Gly Leu Leu Pro Leu Leu Arg
    130                 135                 140

Ser Ser Arg Gly Arg Ile Val Thr Val Gly Ser Pro Ala Gly Asp Met
145                 150                 155                 160

Pro Tyr Pro Cys Leu Gly Ala Tyr Gly Thr Ser Lys Ala Ala Val Ala
                165                 170                 175

Leu Leu Met Asp Thr Phe Ser Cys Glu Leu Leu Pro Trp Gly Val Lys
            180                 185                 190
```

```
Val Ser Ile Ile Gln Pro Gly Cys Phe Lys Thr Glu Ser Val Arg Asn
        195                 200                 205

Val Gly Gln Trp Glu Lys Arg Lys Gln Leu Leu Leu Ala Asn Leu Pro
    210                 215                 220

Gln Glu Leu Leu Gln Ala Tyr Gly Lys Asp Tyr Ile Glu His Leu His
225                 230                 235                 240

Gly Gln Phe Leu His Ser Leu Arg Leu Ala Met Ser Asp Leu Thr Pro
                245                 250                 255

Val Val Asp Ala Ile Thr Asp Ala Leu Leu Ala Ala Arg Pro Arg Arg
            260                 265                 270

Arg Tyr Tyr Pro Gly Gln Gly Leu Gly Leu Met Tyr Phe Ile His Tyr
        275                 280                 285

Tyr Leu Pro Glu Gly Leu Arg Ala Ala Ser Cys Arg Pro Ser Ser Ser
    290                 295                 300

Val Thr Val Cys Leu Glu His Cys Ser Leu Ala Ser Leu Ala Leu Pro
305                 310                 315                 320

His His Arg Thr Gln Pro Arg Thr Gln Thr
                325                 330
```

<210> 5926
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5926
Cys Xaa His Met Val Ile Met Cys Asp Trp Ile Met Lys Ile Ile Val

```
  1               5                  10                  15

Val Cys Val Gly Thr Arg Asp Cys Pro Val Ser Arg Thr Pro Ala His
             20                  25                  30

Tyr Leu Ser Ile Leu Gln Pro Phe Ile Trp Lys Leu Pro Thr Ser Leu
         35                  40                  45

Cys Cys Val Cys Leu His Met Xaa Gly Phe Ala Val Leu Ala Leu Thr
     50                  55                  60

Ala His Arg Glu Cys Arg Pro His Pro Asn Pro His Gln Leu Pro Leu
 65                  70                  75                  80

Glu Xaa Gln Asn Leu Gly Trp Gly
                 85
```

<210> 5927
<211> 40
<212> PRT
<213> Homo sapiens

<400> 5927

```
Arg Tyr His Ile Leu Ser Gly Ile Ser Pro Pro Ala Leu Trp Leu Leu
  1               5                  10                  15

Val Glu Arg Leu Phe Gly Tyr Gly Leu Ala Val Glu Lys Ile Gln Val
             20                  25                  30

Ile Leu Leu Asn Asp Phe Thr Phe
         35                  40
```

<210> 5928
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5928

```
Thr Phe Pro Asn Gly Ala Phe Ala Leu Ile Ser Lys Leu Thr Ala Arg
  1               5                  10                  15

Asp Ala Phe Leu Tyr Phe Asp Cys Phe Thr Val Glu Gly Gln Ile Pro
```

```
            20                  25                  30

Arg Leu Ser Lys Val Asn Leu Phe Thr Leu Leu Ser Leu Trp Met Glu
         35                  40                  45

Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys Ser Gln Lys Asn Glu Glu
     50                  55                  60

Gly Lys His Gly Pro Leu Gly Asp Asn Glu Glu Arg Thr Arg Val Ser
 65                  70                  75                  80

Thr Asp Lys Arg Gln Lys Thr Met Phe Cys Leu Phe Glu Asn Asp Xaa
                 85                  90                  95

Lys Cys Lys Ala Leu Thr Val Met Ile Arg Ser Met Ser Arg Ser Val
            100                 105                 110

Pro
```

<210> 5929
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5929

```
Cys Ile Gly Pro Lys Cys Lys Leu His Trp Ser Asp Leu Glu Ala Phe
  1               5                  10                  15

Met Leu Thr Ser Phe Gly Lys Val Lys Asn Asn Lys Ile Ile Leu Asp
             20                  25                  30

Phe Ile Leu Tyr Ile Lys Ile Tyr Leu Leu Arg Lys Gln Ser Val Tyr
         35                  40                  45

Tyr Leu Leu Val
     50
```

<210> 5930
<211> 89
<212> PRT
<213> Homo sapiens

<400> 5930

```
Ala Glu Gln Glu Glu His Gly Lys Arg Lys Lys Lys Gly Lys Gly Leu
  1               5                  10                  15
```

```
Gly Lys Lys Arg Asp Pro Cys Leu Arg Lys Tyr Lys Asp Phe Cys Ile
            20                  25                  30

His Gly Glu Cys Lys Tyr Val Lys Glu Leu Arg Ala Pro Ser Cys Ile
        35                  40                  45

Cys His Pro Gly Tyr His Gly Glu Arg Cys His Gly Leu Ser Leu Pro
    50                  55                  60

Val Glu Asn Arg Leu Tyr Thr Tyr Asp His Thr Thr Ile Leu Ala Val
65                  70                  75                  80

Val Ala Val Val Leu Asp Leu Met Ser
                85
```

<210> 5931
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5931

```
Glu Ser Pro Thr Ile Val Lys Ala Gly Thr Pro Ala Gly Thr Gly Pro
  1               5                  10                  15

Glu Phe Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro Gly Leu Leu
            20                  25                  30

Glu Pro Trp Thr Ser Lys Gly Val Glu Ile Ala Ala Ala Pro His Tyr
        35                  40                  45

Lys His Leu Gly Leu Glu Ala Thr Glu Tyr His Phe Leu His Ile Leu
    50                  55                  60

Leu Xaa Lys Ala Gly Gly Glu Pro Ala Leu Thr Lys Arg Val Gly Asp
65                  70                  75                  80

Gln Thr Phe Thr Ser
                85
```

<210> 5932
<211> 155
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5932
Glu Trp Thr Glu Gly Gln Thr Val Gln Gly Arg Glu Asp His Trp Gly
1 5 10 15

Arg Glu Val Thr Xaa Arg Glu Val Ser Val Gly Arg Gly Glu Thr Lys
20 25 30

Glu Lys Ile Glu Glu Gln Lys Ala Leu Ala Leu Gln Leu Gln Asn Gln
35 40 45

Arg Leu Gln Glu Arg Glu His Ser Val His Asp Ser Val Glu Leu His
50 55 60

Leu Arg Val Pro Leu Glu Lys Glu Ile Pro Val Thr Val Val Gln Glu
65 70 75 80

Thr Gln Lys Lys Gly His Lys Leu Thr Asp Ser Glu Asp Glu Phe Pro
85 90 95

Glu Ile Thr Glu Glu Met Glu Lys Glu Ile Lys Asn Val Phe Arg Asn
100 105 110

Gly Asn Gln Asp Glu Val Leu Ser Glu Ala Phe Arg Leu Thr Ile Thr
115 120 125

Arg Lys Asp Ile Gln Thr Leu Asn His Leu Asn Trp Leu Asn Asp Glu
130 135 140

Ile Ile Asn Phe Tyr Met Asn Met Leu Met Gly
145 150 155

<210> 5933
<211> 150
<212> PRT
<213> Homo sapiens

<400> 5933
Gly Thr Thr Thr Arg Asp Phe Thr Gln Leu Asn Glu Leu Gln Cys Arg
1 5 10 15

Phe Pro Arg Arg Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
20 25 30

```
His Gln Glu Asn Cys Gln Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
         35                  40                  45

Val Arg Pro Gly Gly Gly Tyr Gln Pro Thr Phe Thr Leu Val Gln Lys
     50                  55                  60

Cys Glu Val Asn Gly Gln Asn Glu His Pro Val Phe Ala Tyr Leu Lys
 65                  70                  75                  80

Asp Lys Leu Pro Tyr Pro Tyr Asp Asp Pro Phe Ser Leu Met Thr Asp
                 85                  90                  95

Pro Lys Leu Ile Ile Trp Ser Pro Val Arg Arg Ser Asp Val Ala Trp
            100                 105                 110

Asn Phe Glu Lys Phe Leu Ile Gly Pro Glu Gly Glu Pro Phe Arg Arg
        115                 120                 125

Tyr Ser Arg Thr Phe Pro Thr Ile Asn Ile Glu Pro Asp Ile Lys Arg
    130                 135                 140

Leu Leu Lys Val Ala Ile
145                 150
```

<210> 5934
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5934

```
His Ile Arg Thr Gly Glu Arg Glu Arg Arg Gly Leu Phe Phe Cys Ser
  1               5                  10                  15

Ile Phe Gln Ser His Ile Arg Val Ile Leu Asn Cys Asn Lys Asp Gln
             20                  25                  30

Leu Leu Lys Ile Ser Leu Leu Lys Ile Gln Asn Asp Leu Ser Ile Leu
         35                  40                  45

Lys Ile Ile Tyr Leu Pro Cys Ser Cys Leu Leu Thr Leu Ala Ile Ser
     50                  55                  60

Trp Arg Gly
 65
```

<210> 5935

<211> 107
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5935
Ile Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Gly Pro Glu
1 5 10 15

Phe Pro Gly Arg Pro Thr Arg Pro Xaa Thr Val Arg Leu Ser Ala Ile
20 25 30

Asp Gly Ala Leu Leu Trp Cys Leu Leu Glu Val Tyr Cys His Tyr Arg
35 40 45

Glu Pro Cys Leu Leu Ala Ser Leu Asp Leu Tyr Ser Lys Gln Ser Val
50 55 60

Ser Asp Asp Lys Phe Cys Arg Arg Val Tyr Ser Glu Pro Leu Thr Ser
65 70 75 80

Cys Lys Gly Lys Met Gly Gly Leu Pro Glu Ile Pro Leu Lys Gln Gly
85 90 95

Gly Leu Trp Gly Gly Arg Leu Gly Tyr Leu Ser
100 105

<210> 5936
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5936
Arg Ala Leu Trp Phe Phe Ser Ser Arg Gly His Asp Ala Ser Gln Ile
1 5 10 15

Thr Leu Ala Leu Xaa Thr Ala Ala Ser Tyr Pro Arg Ala Cys Gln Ala
20 25 30

Leu Gly Ala Met Leu Ser Lys Gly Ala Leu Asn Pro Ala Asp Ile Thr

```
        35                  40                  45

Val Leu Phe Lys Met Phe Thr Ser Met Asp Pro Pro Pro Val Glu Leu
     50                  55                  60

Glu Val Ala Ser Gln Glu Ser Pro Met Ser Ala Gly Lys Val Thr Leu
 65                  70                  75                  80

Glu Ser Leu Cys Leu Ser Asp Cys Leu Lys Ala Val Asn Ala Asn Pro
                 85                  90                  95

Ser Leu Ser Trp Ser Phe Leu Ser His Thr Leu Cys Leu Glu Pro Val
            100                 105                 110

Gly Pro Leu Leu Cys Arg Asp Thr Leu Arg Gly Gly Gly
        115                 120                 125
```

<210> 5937
<211> 223
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5937

```
Arg His Cys Leu Pro Pro Thr Pro Pro Gln Gly Cys Gly Leu Pro Ala
  1               5                  10                  15

Leu Gly Gly Gln Ala Met Leu Thr Leu His Gly Gly His Ser Ser Arg
             20                  25                  30

Glu Ala Xaa Lys Val Val Asn Ser Ile Leu Ala Phe Arg Glu Lys Glu
         35                  40                  45

Trp Gln Arg Leu Gln Ser Asn Pro His Leu Lys Glu Gly Ser Val Thr
     50                  55                  60

Ser Val Asn Leu Thr Lys Leu Glu Gly Gly Val Ala Tyr Asn Val Ile
 65                  70                  75                  80

Pro Ala Thr Met Ser Ala Ser Phe Asp Phe Arg Val Ala Pro Asp Val
                 85                  90                  95

Asp Phe Lys Ala Phe Glu Glu Gln Leu Gln Ser Trp Cys Gln Ala Ala
            100                 105                 110
```

```
Gly Glu Gly Val Thr Leu Glu Phe Ala Gln Lys Trp Met His Pro Gln
        115                 120                 125

Val Thr Pro Thr Asp Asp Ser Asn Pro Trp Trp Ala Ala Phe Ser Arg
    130                 135                 140

Val Cys Lys Asp Met Asn Leu Thr Leu Glu Pro Glu Ile Met Pro Ala
145                 150                 155                 160

Ala Thr Asp Asn Arg Tyr Ile Arg Ala Val Gly Val Pro Ala Leu Gly
                165                 170                 175

Phe Ser Pro Met Asn Arg Thr Pro Val Leu Leu His Asp His Asp Glu
            180                 185                 190

Arg Leu His Glu Ala Val Phe Leu Arg Gly Val Asp Ile Tyr Thr Arg
        195                 200                 205

Leu Leu Pro Ala Leu Ala Ser Val Pro Ala Leu Pro Ser Asp Ser
    210                 215                 220
```

<210> 5938
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5938

```
Ala Leu Cys Pro Pro Arg Gly Thr Ala Ser Gly Pro Arg His Thr Leu
  1               5                  10                  15

Trp Leu Asn Gln Gly Leu Gln Gly Pro Cys Gly Pro Ala Gln Ala Leu
            20                  25                  30

Met Gly Arg His Val Arg Ser Trp Arg Thr Gln Ala Pro Phe Leu Ser
        35                  40                  45

Gly Val Val Phe Phe Leu Cys Pro Gly Ala Ser Pro Ser Ser Asn Gly
    50                  55                  60

Pro Phe Ala Arg Phe Gly Val Pro Leu Ala Gly Pro Ile Arg Thr Leu
65                  70                  75                  80

Arg Ser Asn Gln Gly Arg
                85
```

<210> 5939
<211> 130

<212> PRT
<213> Homo sapiens

<400> 5939
Arg Arg Asp Ala Cys Pro Ile Ser Arg Glu Pro Pro Thr Arg Pro Trp
1 5 10 15

Gly Thr Thr Ser Thr Leu Leu Leu Ser Leu Gln Ser Pro Val Pro Arg
20 25 30

Met Gly His Leu Gln Pro Leu Ala Leu Pro Gln Phe Leu His Leu Pro
35 40 45

Ala Ala Ala Pro Arg Asn Trp Ala Pro Ser Ser Arg Ala Trp Pro Ala
50 55 60

Cys Ala Pro Arg Ser Arg Pro Gly Arg Ala Ala Val Phe Leu Lys Tyr
65 70 75 80

Ala Arg Pro Gln Arg Gln Gly Thr Ser Leu Ala Ala Ala Leu Pro Ala
85 90 95

Ala Ala Ser Ser Leu Ser Leu Pro Glu Tyr Trp Asp Ser Val Thr Lys
100 105 110

Lys Ser Thr Thr Lys Asn Lys Thr Leu Pro Val Cys Val Arg Leu Ser
115 120 125

Ser Gln
130

<210> 5940
<211> 148
<212> PRT
<213> Homo sapiens

<400> 5940
Gly Arg Thr Cys Lys Lys Glu Leu Thr Arg Lys Asp Thr Ile Met Ala
1 5 10 15

His Val Thr Glu Phe His Asn Gly His Arg Tyr Phe Tyr Glu Met Asp
20 25 30

Glu Val Glu Gly Glu Thr Leu Pro Ser Ser Ser Thr Thr Leu Asp Asn
35 40 45

Leu Thr Ala Asn Lys Pro Ser Ser Ala Ile Thr Val Ile Asp His Ser
50 55 60

```
Pro Ala Asn Ser Ser Pro Arg Gly Lys Trp Gln Cys Arg Ile Cys Glu
 65                  70                  75                  80

Asp Met Phe Asp Ser Gln Glu Tyr Val Lys Gln His Cys Met Ser Leu
                 85                  90                  95

Ala Ser His Lys Phe His Arg Tyr Ser Cys Ala His Cys Arg Lys Pro
            100                 105                 110

Phe His Lys Ile Glu Thr Leu Tyr Arg His Cys Gln Asp Glu His Asp
        115                 120                 125

Asn Glu Ile Lys Ile Lys Tyr Phe Cys Gly Leu Cys Asp Leu Ile Phe
    130                 135                 140

Asn Val Glu Glu
145
```

<210> 5941
<211> 268
<212> PRT
<213> Homo sapiens

<400> 5941

```
Pro Gly Arg Pro Thr Arg Pro Arg Thr Arg Gly Ile Asn Lys Leu Ile
  1               5                  10                  15

Arg Ile Gly Arg Asn Glu Cys Val Val Val Ile Arg Val Asp Lys Glu
             20                  25                  30

Lys Gly Tyr Ile Asp Leu Ser Lys Arg Arg Val Ser Pro Glu Glu Ala
         35                  40                  45

Ile Lys Cys Glu Asp Lys Phe Thr Lys Ser Lys Thr Val Tyr Ser Ile
     50                  55                  60

Leu Arg His Val Ala Glu Val Leu Glu Tyr Thr Lys Asp Glu Gln Leu
 65                  70                  75                  80

Glu Ser Leu Phe Gln Arg Thr Ala Trp Val Phe Asp Asp Lys Tyr Lys
                 85                  90                  95

Arg Pro Gly Tyr Gly Ala Tyr Asp Ala Phe Lys His Ala Val Ser Asp
            100                 105                 110

Pro Ser Ile Leu Asp Ser Leu Asp Leu Asn Glu Asp Glu Arg Glu Val
        115                 120                 125

Leu Ile Asn Asn Ile Asn Arg Arg Leu Thr Pro Gln Ala Val Lys Ile
```

```
    130                 135                 140

Arg Ala Asp Ile Glu Val Ala Cys Tyr Gly Tyr Glu Gly Ile Asp Ala
145                 150                 155                 160

Val Lys Glu Ala Leu Arg Ala Gly Leu Asn Cys Ser Thr Glu Asn Met
                165                 170                 175

Pro Ile Lys Ile Asn Leu Ile Ala Pro Pro Arg Tyr Val Met Thr Thr
            180                 185                 190

Thr Thr Leu Glu Arg Thr Glu Gly Leu Ser Val Leu Ser Gln Ala Met
        195                 200                 205

Ala Val Ile Lys Glu Lys Ile Glu Glu Lys Arg Gly Val Phe Asn Val
    210                 215                 220

Gln Met Glu Pro Lys Val Val Thr Asp Thr Asp Glu Thr Glu Leu Ala
225                 230                 235                 240

Arg Gln Met Glu Arg Leu Glu Arg Glu Asn Ala Glu Val Asp Gly Asp
                245                 250                 255

Asp Asp Ala Glu Glu Met Glu Ala Lys Ala Glu Asp
            260                 265
```

<210> 5942
<211> 249
<212> PRT
<213> Homo sapiens

<400> 5942

```
Ser Arg Glu Ile Asp Ile Ile His Val Ile Lys Asn Met Gly Phe Asn
  1               5                  10                  15

Leu Thr Phe His Leu Ser Tyr Lys Phe Arg Leu Leu Leu Leu Leu Thr
             20                  25                  30

Leu Cys Leu Thr Val Val Gly Trp Ala Thr Ser Asn Tyr Phe Val Gly
         35                  40                  45

Ala Ile Gln Glu Ile Pro Lys Ala Lys Glu Phe Met Ala Asn Phe His
     50                  55                  60

Lys Thr Leu Ile Leu Gly Lys Gly Lys Thr Leu Thr Asn Glu Ala Ser
 65                  70                  75                  80

Thr Lys Lys Val Glu Leu Asp Asn Cys Pro Ser Val Ser Pro Tyr Leu
                 85                  90                  95
```

```
Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu Thr Leu Glu Glu
            100                 105                 110

Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg Tyr Arg Pro Gln
        115                 120                 125

Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val Pro His Arg Asn
    130                 135                 140

Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu His Pro Phe Leu
145                 150                 155                 160

Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile His Gln Ala Glu
                165                 170                 175

Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val Gly Tyr Leu Glu
            180                 185                 190

Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe His Asp Val Thr
        195                 200                 205

Trp Tyr Pro Arg Met Thr Leu Thr Phe Thr Ser Val Arg Ser Ile Pro
    210                 215                 220

Ser Ile Trp Trp Leu Ala Gly Thr Ala Leu Gly Thr Gly Tyr Val Thr
225                 230                 235                 240

Val Asp Ile Leu Gly Val Leu Leu Pro
                245
```

<210> 5943
<211> 25
<212> PRT
<213> Homo sapiens

<400> 5943

```
Gln Ala Pro Arg Arg Pro Ser Pro Ala Ser Leu Cys Gly Pro Arg Arg
  1               5                  10                  15

Pro Ala Ala Pro Glu Leu Leu Thr Val
             20                  25
```

<210> 5944
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5944
Gln Gly Gly Asp Pro Trp Val Val Arg Gln Leu Trp Val Asn Phe Val
1 5 10 15

Ser Thr Leu Ser Arg Gly Lys Phe Gly Leu Ser Pro Gly Val His Thr
20 25 30

Ala Ala Ala Thr Gln Cys Ala Thr Tyr His Phe Phe Leu Xaa Cys Phe
35 40 45

Val Leu Phe Leu Lys Asp His Phe Ile Leu Lys Arg Lys Ala Asp Pro
50 55 60

Ser Lys His Glu Ser Ile
65 70

<210> 5945
<211> 409
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5945
Pro Val Xaa Pro Arg Val Arg Arg Arg Arg Ala Lys Val Gln Gln Gly
1 5 10 15

Ala Val Gly Arg Ala Arg Arg Phe Pro Ala Arg Val Ser Ala Arg Gly
20 25 30

Ser Ala Pro Gly Pro Gly Leu Gly Gly Ala Gly Ala Leu Asp Pro Pro
35 40 45

Ala Val Val Ala Glu Ser Val Ser Ser Leu Thr Ile Ala Asp Ala Phe
50 55 60

Ile Ala Ala Gly Glu Ser Ser Ala Pro Thr Pro Pro Arg Pro Ala Leu
65 70 75 80

Pro Arg Arg Phe Ile Cys Ser Phe Pro Asp Cys Ser Ala Asn Tyr Ser

```
                85                  90                  95

Lys Ala Trp Lys Leu Asp Ala His Leu Cys Lys His Thr Gly Glu Arg
            100                 105                 110

Pro Phe Val Cys Asp Tyr Glu Gly Cys Gly Lys Ala Phe Ile Arg Asp
        115                 120                 125

Tyr His Leu Ser Arg His Ile Leu Thr His Thr Gly Glu Lys Pro Phe
    130                 135                 140

Val Cys Ala Ala Asn Gly Cys Asp Gln Lys Phe Asn Thr Lys Ser Asn
145                 150                 155                 160

Leu Lys Lys His Phe Glu Arg Lys His Glu Asn Gln Gln Lys Gln Tyr
                165                 170                 175

Ile Cys Ser Phe Glu Asp Cys Lys Lys Thr Phe Lys Lys His Gln Gln
            180                 185                 190

Leu Lys Ile His Gln Cys Gln His Thr Asn Glu Pro Leu Phe Lys Cys
        195                 200                 205

Thr Gln Glu Gly Cys Gly Lys His Phe Ala Ser Pro Ser Lys Leu Lys
    210                 215                 220

Arg His Ala Lys Ala His Glu Gly Tyr Val Cys Gln Lys Gly Cys Ser
225                 230                 235                 240

Phe Val Ala Lys Thr Trp Thr Glu Leu Leu Lys His Val Arg Glu Thr
                245                 250                 255

His Lys Glu Glu Ile Leu Cys Glu Val Cys Arg Lys Thr Phe Lys Arg
            260                 265                 270

Lys Asp Tyr Leu Lys Gln His Met Lys Thr His Ala Pro Glu Arg Asp
        275                 280                 285

Val Cys Arg Cys Pro Arg Glu Gly Cys Gly Arg Thr Tyr Thr Thr Val
    290                 295                 300

Phe Asn Leu Gln Ser His Ile Leu Ser Phe His Glu Glu Ser Arg Pro
305                 310                 315                 320

Phe Val Cys Glu His Ala Gly Cys Gly Lys Thr Phe Ala Met Lys Gln
                325                 330                 335

Ser Leu Thr Arg His Ala Val Val His Asp Pro Asp Lys Lys Lys Met
            340                 345                 350

Lys Leu Lys Val Lys Lys Ser Arg Glu Lys Arg Ser Leu Ala Ser His
```

```
       355                 360                 365

Leu Ser Gly Tyr Ile Pro Pro Lys Arg Lys Gln Gly Gln Gly Leu Ser
    370                 375                 380

Leu Cys Gln Asn Gly Glu Ser Pro Asn Cys Val Glu Asp Lys Met Leu
385                 390                 395                 400

Ser Thr Val Ala Val Leu Thr Leu Gly
                405
```

<210> 5946
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5946

```
Lys Arg Met Ala Ala Leu Phe Leu Lys Arg Leu Thr Leu Gln Thr Val
  1               5                  10                  15

Lys Ser Glu Asn Ser Cys Ile Arg Cys Phe Gly Lys His Ile Leu Gln
             20                  25                  30

Lys Thr Ala Pro Ala Gln Leu Ser Pro Ile Ala Ser Ala Pro Arg Leu
         35                  40                  45

Ser Phe Leu Ile His Ala Lys Ala Phe Ser Thr Ala Glu Asp Thr Gln
     50                  55                  60

Asn Glu Gly Lys Lys Thr Lys Lys Xaa Lys Thr Ala Phe Ser Asn Val
 65                  70                  75                  80

Xaa Lys Lys Asn
```

<210> 5947
<211> 288

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (79)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5947

```
Asp Val Ile Arg Arg Thr Val Glu Glu Arg Lys Leu Lys Leu Glu Met
  1               5                  10                  15

Glu Lys Gln Glu Phe Glu Gln Leu Arg Gln Glu Met Gly Glu Glu Glu
             20                  25                  30

Glu Glu Asn Glu Thr Phe Gly Leu Ser Arg Glu Tyr Glu Glu Leu Ile
         35                  40                  45

Lys Leu Lys Arg Ser Gly Ser Ile Gln Ala Lys Asn Leu Lys Ser Lys
     50                  55                  60

Phe Glu Lys Ile Gly Gln Leu Ser Glu Lys Glu Ile Gln Xaa Xaa Ile
 65                  70                  75                  80

Glu Glu Glu Arg Ala Arg Arg Arg Ala Ile Asp Leu Glu Ile Lys Glu
                 85                  90                  95

Arg Glu Ala Glu Asn Phe His Glu Glu Asp Asp Val Asp Val Arg Pro
            100                 105                 110

Ala Arg Lys Ser Glu Ala Pro Phe Thr His Lys Val Asn Met Lys Ala
        115                 120                 125

Arg Phe Glu Gln Met Ala Lys Ala Arg Glu Glu Glu Glu Gln Arg Arg
    130                 135                 140

Ile Glu Glu Gln Lys Leu Leu Arg Met Gln Phe Glu Gln Arg Glu Ile
145                 150                 155                 160

Asp Ala Ala Leu Gln Lys Lys Arg Glu Glu Glu Glu Glu Glu Glu Gly
                165                 170                 175

Ser Ile Met Asn Gly Ser Thr Ala Glu Asp Glu Glu Gln Thr Arg Ser
            180                 185                 190

Gly Ala Pro Trp Phe Lys Lys Pro Leu Lys Asn Thr Ser Val Val Asp
```

```
        195                 200                 205

Ser Glu Pro Val Arg Phe Thr Val Lys Val Thr Gly Glu Pro Lys Pro
    210                 215                 220

Glu Ile Thr Trp Trp Phe Glu Gly Glu Ile Leu Gln Asp Gly Glu Asp
225                 230                 235                 240

Tyr Gln Tyr Ile Glu Arg Gly Glu Thr Tyr Cys Leu Tyr Leu Pro Glu
                245                 250                 255

Thr Phe Pro Glu Asp Gly Gly Glu Tyr Met Cys Lys Ala Val Asn Asn
            260                 265                 270

Lys Gly Ser Ala Ala Ser Thr Cys Ile Leu Thr Ile Glu Ser Lys Asn
        275                 280                 285
```

<210> 5948
<211> 98
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5948
Trp His Tyr Gly Met Tyr Gly Gln Ala Xaa Pro Cys Gln Glu Xaa Ile
1 5 10 15

Pro Gly Met Val Glu Ser Phe Ile Xaa Asn Gly Trp Phe Ser Xaa Tyr
20 25 30

Ala Lys Arg Pro Met Ser Asn Pro Leu Leu Leu Ile Pro Ala Ala Trp
35 40 45

Gly Leu Val Pro Val Val Pro Gln Lys Cys Gly Pro Arg Thr Gln Pro
50 55 60

Val Xaa Ala Ser Ser Gly Asn Leu Val Lys Lys Cys Lys Leu Leu Gly
65 70 75 80

Pro Thr Leu Asn Leu Leu Asn His Lys Leu Cys Phe Asn Lys Gln Pro
85 90 95

Ala Leu

<210> 5949
<211> 138
<212> PRT
<213> Homo sapiens

<400> 5949
Val Pro Asp Phe Gln Gly Gln Gln Phe Ile Leu Glu Lys Gly Asp Tyr
1 5 10 15

Pro Arg Trp Ser Ala Trp Ser Gly Ser Ser Ser His Asn Ser Asn Gln
20 25 30

Leu Leu Ser Phe Arg Pro Val Leu Cys Ala Asn His Asn Asp Ser Arg
35 40 45

Val Thr Leu Phe Glu Gly Asp Asn Phe Gln Gly Cys Lys Phe Asp Leu
50 55 60

Val Asp Asp Tyr Pro Ser Leu Pro Ser Met Gly Trp Ala Ser Lys Asp
65 70 75 80

Val Gly Ser Leu Lys Val Ser Ser Gly Ala Trp Val Ala Tyr Gln Tyr
85 90 95

Pro Gly Tyr Arg Gly Tyr Gln Tyr Val Leu Glu Arg Asp Arg His Ser
100 105 110

Gly Glu Phe Cys Thr Tyr Gly Glu Leu Gly Thr Gln Ala His Thr Gly
115 120 125

Gln Leu Gln Ser Ile Arg Arg Val Gln His
130 135

<210> 5950
<211> 196
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5950
Lys Lys Asp Phe Phe Gly Lys Ser Asp Pro Phe Leu Val Phe Tyr Arg
1 5 10 15

Ser Asn Glu Asp Gly Thr Phe Thr Ile Cys His Lys Thr Glu Val Val
20 25 30

Lys Asn Thr Leu Asn Pro Val Trp Gln Pro Phe Ser Ile Pro Val Arg
35 40 45

Ala Leu Cys Asn Gly Asp Tyr Asp Arg Thr Val Lys Ile Asp Val Tyr
50 55 60

Asp Trp Asp Arg Asp Gly Ser His Asp Phe Ile Gly Glu Phe Thr Thr
65 70 75 80

Ser Tyr Arg Glu Leu Ser Lys Ala Gln Asn Gln Phe Thr Val Tyr Glu
85 90 95

Val Leu Asn Pro Arg Lys Lys Cys Lys Lys Lys Lys Tyr Val Asn Ser
100 105 110

Gly Thr Val Thr Leu Leu Ser Phe Ser Val Asp Ser Glu Phe Thr Phe
115 120 125

Val Asp Tyr Ile Lys Gly Gly Thr Gln Leu Asn Phe Thr Val Ala Ile
130 135 140

Asp Phe Thr Ala Ser Asn Gly Asn Pro Leu Gln Pro Thr Xaa Leu His
145 150 155 160

Tyr Met Ser Pro Tyr Gln Leu Ser Ala Tyr Ala Met Ala Leu Lys Ala

165 170 175

Val Gly Glu Ile Ile Gln Asp Tyr Asp Ser Asp Lys Leu Phe Pro Ala
180 185 190

Tyr Gly Phe Gly
195

<210> 5951
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5951
Lys Glu His Leu Met Cys Trp Ala Phe Tyr Arg Leu Thr Leu Thr Ser
1 5 10 15

Gln Ala Glu Leu Tyr Thr Phe Ser Phe Thr Thr Ile Ser Ile Leu Ile
20 25 30

Asn Tyr Gly Phe Met Leu Leu Lys Thr Ile Tyr Asn Ala Asp His Tyr
35 40 45

Tyr Lys Cys Val Val Leu Thr Asn Cys Thr Glu Thr Ala Leu Ser Leu
50 55 60

Tyr Ser Val Trp Ile Phe Gly Glu Asn Asn Lys Cys Ser Gln Glu Xaa
65 70 75 80

Leu Leu Arg Gly Arg Leu Cys Glu Trp Ile Thr Leu Lys Ala Ala Phe
85 90 95

Glu Thr Pro Val Ser Gly Ile Ser Cys Ile Leu Ala Trp Arg Pro Asp
100 105 110

Val Asn Leu Thr Ser Ser Lys Asn Thr Arg Phe Pro
115 120

<210> 5952
<211> 129
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5952
Thr Phe Ala Gly Leu Cys His Ile Pro Leu Ala Val Ser Ser Glu Glu
1 5 10 15

Ala Pro Phe Ala Leu Gly Asn Gly Ser Val Ser His Trp Phe Ile Ser
20 25 30

Leu Glu Leu Phe Gly Ser Gln Ile Cys Phe Phe Glu Asn Leu Ser Trp
35 40 45

Gly Arg Leu Gln Val Val Asn Arg Gly Val Gly Val Gly Gly Gly Val
50 55 60

His Tyr Leu Gly Leu Leu Gly Ala Ser Arg Phe Ser Gly Arg Arg Ile
65 70 75 80

His Cys Val Leu Leu Leu Phe Pro Trp Pro Gly Leu Pro Ala Ser Leu
85 90 95

Cys His Pro Ala Trp Gly Lys Ala Pro Thr Gly Ile Val Ser Pro Leu
100 105 110

His Ala Ser Leu Ala Xaa Lys Ser Gln Lys Lys Ser Lys Thr Gly Arg
115 120 125

Lys

<210> 5953
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (175)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5953
Val Leu Glu Pro Gln Asn Val Asp Pro Ser Met Val Gln Met Thr Phe
1 5 10 15

Leu Asp Asp Val Xaa His Ser Leu Leu Lys Gly Glu Asn Ile Gly Ile
20 25 30

Thr Ser Arg Arg Arg Ser Arg Ala Asn Gln Asn Val Asn Ala Val His
35 40 45

Ser His Tyr Thr Arg Ala Gln Ala Asn Ser Pro Arg Pro Ala Met Asn
50 55 60

Ser Gln Ala Ala Val Pro Lys Gln Asn Thr His Gln Gln Gln Gln Gln
65 70 75 80

Arg Ser Ile Arg Pro Asn Lys Arg Lys Gly Ser Asp Ser Ser Ile Pro
85 90 95

Asp Glu Xaa Lys Met Lys Glu Glu Lys Tyr Asp Tyr Ile Ser Arg Gly
100 105 110

Glu Asn Pro Lys Gly Lys Asn Lys His Leu Met Asn Lys Arg Arg Lys
115 120 125

Pro Glu Glu Asp Glu Lys Lys Leu Asn Met Lys Arg Leu Arg Thr Asp
130 135 140

Asn Val Ser Asp Phe Ser Glu Ser Ser Asp Ser Glu Asn Ser Asn Lys
145 150 155 160

Arg Ile Ile Asp Asn Ser Ser Glu Gln Lys Pro Glu Asn Glu Xaa Lys
165 170 175

Lys Lys Tyr

<210> 5954
<211> 273
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5954

```
Ala Gly Phe Cys Val Val Gln Leu Arg Thr Cys Phe Ser Arg Gln Arg
  1               5                  10                  15

Phe Lys Ile Ser Gly Asp Gly Ile Arg Asn Gly Asn Ala Glu Arg Xaa
             20                  25                  30

Gly Arg Gly Gly Leu Tyr Pro Gly His Pro Gln Gly Gly Arg Arg Ala
         35                  40                  45

Lys Lys Arg Gln Ala Glu Gln Leu Ser Ala Ala Gly Glu Gly Gly Asp
     50                  55                  60

Ala Gly Arg Met Asp Thr Glu Glu Ala Arg Pro Ala Lys Arg Pro Val
 65                  70                  75                  80

Phe Pro Pro Leu Cys Gly Asp Gly Leu Leu Ser Gly Lys Glu Glu Thr
                 85                  90                  95

Arg Lys Ile Pro Val Pro Ala Asn Arg Tyr Thr Pro Leu Lys Glu Asn
            100                 105                 110

Trp Met Lys Ile Phe Thr Pro Ile Val Glu His Leu Gly Leu Gln Ile
        115                 120                 125

Arg Phe Asn Leu Lys Ser Arg Asn Val Glu Ile Arg Thr Cys Lys Glu
    130                 135                 140

Thr Lys Asp Val Ser Ala Leu Thr Lys Ala Ala Asp Phe Val Lys Ala
145                 150                 155                 160

Phe Ile Leu Gly Phe Gln Val Glu Asp Ala Leu Ala Leu Ile Arg Leu
                165                 170                 175

Asp Asp Leu Phe Leu Glu Ser Phe Glu Ile Thr Asp Val Lys Pro Leu
            180                 185                 190

Lys Gly Asp His Leu Ser Arg Ala Ile Gly Arg Ile Ala Gly Lys Gly
        195                 200                 205

Gly Lys Thr Lys Phe Thr Ile Glu Asn Val Thr Arg Thr Arg Ile Val
    210                 215                 220

Leu Ala Asp Val Lys Val His Ile Leu Gly Ser Phe Gln Asn Ile Lys
225                 230                 235                 240

Met Ala Arg Thr Ala Ile Cys Asn Leu Ile Leu Gly Asn Pro Pro Ser
                245                 250                 255
```

```
Lys Val Tyr Gly Asn Ile Arg Ala Val Ala Ser Arg Ser Ala Asp Arg
            260                 265                 270

Phe
```

<210> 5955
<211> 92
<212> PRT
<213> Homo sapiens

<400> 5955

```
Arg Met Glu Arg Ser Leu Lys Gly Ile Phe Ile Lys Gln Val Leu Glu
  1               5                  10                  15

Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr Gly Asp Lys Ile
             20                  25                  30

Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser His Ser Glu Ala
         35                  40                  45

Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val Phe Ile Val Gln
     50                  55                  60

Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val His Asn Lys Ala
 65                  70                  75                  80

Asn Lys Ile Thr Gly Asn Gln Asn Gln Asp Thr Gln
                 85                  90
```

<210> 5956
<211> 203
<212> PRT
<213> Homo sapiens

<400> 5956

```
Asn Ser Ala Arg Gly Asp Gln Glu Ser Thr Cys Ala Glu Val Leu Val
  1               5                  10                  15

Ile Trp Ser Leu Phe Pro Ser Gly Tyr Gln Leu Pro Ser Ala Ala Gln
             20                  25                  30

Ala Val Val Pro Glu Ala Arg Gly Arg Ser Gln Thr Cys Gly Asn Phe
         35                  40                  45

Ala Val Tyr Leu Gln Gly Cys Cys Phe Gln Gln Asp Pro Lys Leu Glu
```

```
     50                  55                  60

Lys Glu Glu Glu Glu Thr Asp Pro Ile Ser Ala Arg Ser His Cys Ile
 65                  70                  75                  80

Gln Arg Arg Ile Ser Lys Lys Glu Lys Lys Glu Gly Arg Glu Val Asp
                 85                  90                  95

Arg Tyr Lys Met Lys Ser Cys Gln Lys Met Glu Gly Lys Pro Glu Asn
            100                 105                 110

Glu Ser Glu Pro Lys His Glu Glu Glu Pro Lys Pro Glu Glu Lys Pro
        115                 120                 125

Glu Glu Glu Glu Lys Leu Glu Glu Glu Ala Lys Ala Lys Gly Thr Phe
    130                 135                 140

Arg Glu Arg Leu Ile Gln Ser Leu Gln Glu Phe Lys Glu Asp Ile His
145                 150                 155                 160

Asn Arg His Leu Ser Asn Glu Asp Met Phe Arg Glu Val Asp Glu Ile
                165                 170                 175

Asp Glu Ile Arg Arg Val Arg Asn Lys Leu Ile Val Met Arg Trp Lys
            180                 185                 190

Val Asn Arg Asn His Pro Tyr Pro Tyr Leu Met
        195                 200
```

<210> 5957
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (42)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5957
Trp Ala Leu Cys Thr Asn Cys Phe Ser Pro Ser Pro Leu Asp Leu Arg
1 5 10 15

Ile Lys His Pro Val Leu Lys Leu Ile Cys Cys Ser Phe Val Asn Ile
20 25 30

Ser Leu Arg Phe Ser Leu Arg Val Arg Xaa Asn Ile Ser Glu Pro Lys
35 40 45

Val Pro Tyr Thr Thr Leu Ala Tyr Tyr Ser Xaa Xaa Phe Lys Gly Phe
50 55 60

Arg Ile Phe Gly Ser His Xaa Lys Ser Val Phe Ile Met
65 70 75

<210> 5958
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5958
Cys Asn Asp His Lys Ile Ala Trp Lys Ile Val Ile Gln Ile Ser Thr
1 5 10 15

Met Asn Ser Xaa Pro Lys Phe Phe Phe Pro Met Ile Lys Val Val Asp
20 25 30

<210> 5959
<211> 56
<212> PRT
<213> Homo sapiens

<400> 5959

```
Asn Gln Val Tyr Phe Leu Met Ala Phe Ile Thr Leu Thr His Lys Val
 1               5                  10                  15

Thr Asp Gln Cys Ile Ser Tyr Gly Tyr Arg Pro Arg Ala Leu Glu Gly
            20                  25                  30

Gly Gly Leu Leu Lys His Met Gln Lys Lys Lys Lys Lys Lys Phe Cys
        35                  40                  45

Ile Tyr Asn His Phe Asn Leu Leu
    50                  55
```

<210> 5960
<211> 82
<212> PRT
<213> Homo sapiens

<400> 5960

```
Gly Tyr Val Cys Glu Phe Leu Gly Asn Leu Ser Val Leu Asp Ala Ser
 1               5                  10                  15

Leu Gln Gln Gly Pro Leu Leu Ala Met Asp Gly Pro Gly Arg Ser Leu
            20                  25                  30

Glu Ile Thr His Leu Lys Asn Glu Gly Pro Met Lys Val Phe Gly Cys
        35                  40                  45

Leu Leu Met Pro Leu Leu Leu Thr Leu Leu Phe Ala Tyr Phe Gln Asn
    50                  55                  60

Ile Ile Lys Cys Gln His Ile Ile Ser Glu Arg Gln Val Gly Val Gly
65                  70                  75                  80

Glu Lys
```

<210> 5961
<211> 77
<212> PRT
<213> Homo sapiens

<400> 5961

```
Phe Val Thr Cys His Asn Thr Lys Gln Val Thr Glu Glu Thr Ile Met
 1               5                  10                  15

Gly Pro Arg Gly Arg Cys Leu Tyr His Val Asp Lys Ile Gln Ser Ser
            20                  25                  30
```

```
Leu Phe Gln Thr Lys His Phe Ala Leu Glu Thr Phe Glu Thr Ser Met
         35                  40                  45

Ala Val Glu Tyr Ser Arg Asp Asp Leu Lys Ile Leu Glu Ala Val Glu
     50                  55                  60

Val Pro Val Val Gly Ala Arg His Gly Ser Gly Asp Pro
 65                  70                  75
```

<210> 5962
<211> 170
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5962

```
Ala Asp Ala Trp Val Asp Tyr Ser Glu Asp Lys Ser Ser Trp Asp Asn
  1               5                  10                  15

Gln Gln Glu Asn Pro Pro Pro Thr Lys Lys Ile Gly Lys Lys Pro Val
             20                  25                  30

Ala Lys Met Pro Leu Arg Arg Pro Lys Met Lys Lys Thr Pro Glu Lys
         35                  40                  45

Leu Asp Asn Thr Pro Ala Ser Pro Pro Arg Ser Pro Ala Glu Pro Asn
     50                  55                  60

Asp Ile Pro Ile Ala Lys Gly Thr Tyr Thr Phe Asp Ile Asp Lys Trp
 65                  70                  75                  80

Asp Asp Pro Asn Phe Asn Pro Phe Ser Ser Thr Ser Lys Met Gln Glu
                 85                  90                  95

Ser Pro Lys Leu Pro Gln Gln Ser Tyr Asn Phe Asp Pro Asp Thr Cys
            100                 105                 110

Asp Glu Ser Val Asp Pro Phe Lys Thr Ser Ser Lys Thr Pro Ser Ser
        115                 120                 125

Pro Ser Lys Ser Pro Ala Ser Phe Glu Ile Pro Ala Ser Ala Met Glu
    130                 135                 140

Ala Asn Gly Val Asp Gly Asp Gly Leu Asn Lys Pro Ala Lys Lys Lys
```

145 150 155 160

Lys Thr Pro Leu Lys Thr Glu His Leu Xaa
165 170

<210> 5963
<211> 55
<212> PRT
<213> Homo sapiens

<400> 5963
Leu Ile Ala Gly Ile Gln His Gly Cys Gln Asp Ile Gly Ala Arg Ser
1 5 10 15

Leu Ser Val Leu Arg Ser Met Met Tyr Ser Gly Glu Leu Lys Phe Glu
20 25 30

Lys Arg Thr Met Ser Ala Gln Ile Glu Gly Gly Val His Gly Leu His
35 40 45

Ser Tyr Glu Lys Arg Leu Tyr
50 55

<210> 5964
<211> 493
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (112)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (156)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (359)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (434)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (436)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (468)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (471)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (473)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (488)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5964
Val Ile Arg Gly Gly Ser Asn Arg Arg Gly Glu Gly Glu Val Ile Pro
1 5 10 15

Glu Glu Ser Arg Leu Gly Arg Thr Arg Trp Pro Gly Asn Arg Val Ile
20 25 30

Arg Glu Met Lys Pro Thr Gly Thr Asp Pro Arg Ile Leu Ser Ile Ala
35 40 45

Ala Glu Val Ala Lys Ser Pro Glu Gln Asn Val Pro Val Ile Leu Leu
50 55 60

Lys Leu Lys Glu Ile Ile Asn Ile Thr Pro Leu Gly Ser Ser Glu Leu
65 70 75 80

```
Lys Lys Ile Lys Gln Asp Ile Tyr Cys Tyr Asp Leu Ile Gln Tyr Cys
                 85                  90                  95

Leu Leu Val Leu Ser Gln Asp Tyr Ser Arg Ile Gln Gly Gly Trp Xaa
            100                 105                 110

Thr Ile Ser Gln Leu Thr Gln Ile Leu Ser His Cys Cys Val Gly Leu
        115                 120                 125

Glu Pro Gly Glu Asp Ala Xaa Glu Phe Tyr Asn Glu Leu Leu Pro Ser
    130                 135                 140

Ala Ala Glu Asn Phe Leu Val Leu Gly Arg Gln Xaa Gln Thr Cys Phe
145                 150                 155                 160

Ile Asn Ala Ala Xaa Ala Glu Glu Lys Asp Glu Leu Leu His Phe Phe
                165                 170                 175

Gln Ile Val Thr Asp Ser Leu Phe Trp Leu Leu Gly Gly His Val Glu
            180                 185                 190

Leu Ile Gln Asn Val Leu Gln Ser Asp His Phe Leu His Leu Leu Gln
        195                 200                 205

Ala Asp Asn Val Gln Ile Gly Ser Ala Val Met Met Met Leu Gln Asn
    210                 215                 220

Ile Leu Gln Ile Asn Ser Gly Asp Leu Leu Arg Ile Gly Arg Lys Ala
225                 230                 235                 240

Leu Tyr Ser Ile Leu Asp Glu Val Ile Phe Lys Leu Phe Ser Thr Pro
                245                 250                 255

Ser Pro Val Ile Arg Ser Thr Ala Thr Lys Leu Leu Leu Leu Met Ala
            260                 265                 270

Glu Ser His Gln Glu Ile Leu Ile Leu Leu Arg Gln Ser Thr Cys Tyr
        275                 280                 285

Lys Gly Leu Arg Arg Leu Leu Ser Lys Gln Glu Thr Gly Thr Glu Phe
    290                 295                 300

Ser Gln Glu Leu Arg Gln Leu Val Gly Leu Leu Ser Pro Met Val Tyr
305                 310                 315                 320

Gln Glu Val Glu Glu Gln Lys Leu His Gln Ala Ala Cys Leu Ile Gln
                325                 330                 335

Ala Tyr Trp Lys Gly Phe Gln Thr Arg Lys Arg Leu Lys Lys Leu Pro
            340                 345                 350
```

```
Ser Ala Val Ile Ala Leu Xaa Arg Ser Phe Arg Ser Lys Arg Ser Lys
        355                 360                 365

Met Leu Leu Glu Ile Asn Arg Gln Lys Glu Glu Glu Asp Leu Lys Leu
    370                 375                 380

Gln Leu Gln Leu Gln Arg Gln Arg Ala Met Arg Leu Ser Arg Glu Leu
385                 390                 395                 400

Gln Leu Ser Met Leu Glu Ile Val His Pro Gly Gln Val Glu Lys His
                405                 410                 415

Tyr Arg Glu Met Gly Arg Glu Ile Ser Thr Asp Tyr Pro Glu Thr Leu
            420                 425                 430

Glu Xaa Val Xaa Gly Lys Glu Lys Phe Ser Pro Thr Glu Ala Val Ser
        435                 440                 445

His Arg Ser Ile Lys Ala Thr Val Thr Leu Gln Lys Ser Lys Arg Phe
    450                 455                 460

Lys Phe Leu Xaa Glu Ile Xaa Arg Xaa Glu Lys Arg Lys Leu Phe Cys
465                 470                 475                 480

Leu Pro Trp Ala Lys Gly Pro Xaa Lys Glu Thr Ser Thr
                485                 490
```

<210> 5965
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5965

```
Leu Phe Val Cys Xaa Phe Leu Val Ala Arg Ser Asp Pro Arg Ile Phe
  1               5                  10                  15

Leu Leu Ser Arg Glu Thr Arg Arg Ile Met Arg Leu Phe Leu Val Ala
             20                  25                  30

Phe Gln Glu Tyr Glu Glu Lys Asn Gly Ser Gln Ser Gly Phe Glu
         35                  40                  45
```

<210> 5966
<211> 65
<212> PRT
<213> Homo sapiens

<400> 5966
Leu His Lys Thr Leu Val Arg Tyr Gln Leu Leu His Arg Glu Ser Ser
1 5 10 15

Tyr Thr Ile Pro Tyr Ile Phe Ile Tyr Leu Leu Phe Tyr Tyr Ser Arg
20 25 30

Ile Thr Lys Leu Asp Ala Leu Ser Gln Phe Phe Ala Thr Glu Asn Tyr
35 40 45

Leu Phe Leu Leu Pro Phe His Thr Pro Cys Ile Tyr Asp Gln Pro Leu
50 55 60

His
65

<210> 5967
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5967
Ala Lys Asn Ile Lys Gly Arg Glu Ile Gly Ile Gln Gly Asp Ser Val
1 5 10 15

Gln Glu Ser Lys Pro Gly Ile Cys Leu Cys Gly Arg Pro Asn His Tyr
20 25 30

Tyr Leu Asn Pro Leu Arg Lys Ala Phe Pro Ala Phe His Asn Ser Gly
35 40 45

Ser Ser Phe Ile Lys Trp Glu Thr His Asn Cys Pro Thr Tyr Leu Thr
50 55 60

Gly Val Leu
65

<210> 5968
<211> 124
<212> PRT
<213> Homo sapiens

<400> 5968
Leu Glu Thr Ser Ala Val Tyr Ile Ser Leu Tyr Ser Phe Phe Ser Pro
1 5 10 15

Leu Pro Met Met Phe Arg Asn Thr Thr Ile Leu Phe Ala Lys His Ser
20 25 30

Asn Tyr Leu Ile Ser Lys Gln Val Leu Glu Tyr His Arg Asn His Lys
35 40 45

Thr Ala His Gln Asn Met Pro His Ser Thr Ser Ser Glu Gln Ser Gly
50 55 60

Lys Arg Thr Ser Arg Ser Trp Lys Ser Gly Leu Val Leu Ser Arg Ser
65 70 75 80

Thr Lys Asn Leu Asn Ile Ser Asp Asn His Asn Thr Ser Leu Thr Trp
85 90 95

Glu Arg Ala Val Ile Ile Phe His Arg Gly Gln Asp Gly Ser Leu Asp
100 105 110

Glu Glu Val Asp Met Pro Phe Pro Asn Ser Arg Lys
115 120

<210> 5969
<211> 87
<212> PRT
<213> Homo sapiens

<400> 5969
Ile Cys Pro Arg Ser Pro Ser Lys Val Ser Val Ala Leu Arg Val Arg
1 5 10 15

Thr Leu Ile Arg Leu Gly Arg Val Leu Glu Ser Leu Arg Arg Gln Glu
20 25 30

Glu Cys Ala Glu Leu Ser Val Ser Gly Arg Leu Ile His Cys Trp Ala
35 40 45

His Ile Lys Ala Pro Met Gly Ser Arg Pro Asp Cys Thr Trp Leu Phe
50 55 60

Cys Trp Lys Lys Ser Met Ala Ala Gln Arg Thr Lys Ile Ser Ser Gly
65 70 75 80

Lys Ala Ser Phe Asp Cys Gln
85

<210> 5970
<211> 57
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5970
Met Glu Arg Xaa Gln Val Phe Asn Ser Thr Asn Ile Phe Phe Ser Phe
1 5 10 15

Val Pro Phe Phe Cys Leu Leu Tyr Thr Asp Ile Pro Thr Leu Ala Thr
20 25 30

Ala Gln Arg Gly Ser Tyr Leu Arg Asn Thr Ala Asp Phe Glu Tyr Leu
35 40 45

Val Leu Gln Ser His Leu Ser Glu Ala
50 55

<210> 5971
<211> 184
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5971
Glu Lys Lys Lys Thr Leu Lys Lys Lys Ile Pro Lys Tyr His Gln Pro
1 5 10 15

Arg Lys Glu Lys Arg Arg Gln Lys Pro Leu Gly Gly Phe Gly Lys Glu
20 25 30

Ser Lys Glu Lys Glu Pro Lys Thr Lys Gly Lys Asp Ala Lys Asp Gly
35 40 45

Lys Lys Asp Ser Ser Ala Ala Gln Pro Gly Val Ala Phe Ser Val Asp
50 55 60

```
Asn Thr Ile Lys Arg Pro Asn Pro Ala Pro Gly Thr Arg Lys Lys Ser
 65                  70                  75                  80

Ser Asn Ala Glu Val Ile Lys Glu Leu Asn Lys Cys Arg Glu Glu Asn
                85                  90                  95

Ser Met Arg Leu Asp Leu Ser Lys Arg Ser Ile His Ile Leu Pro Ser
            100                 105                 110

Ser Ile Lys Glu Leu Thr Gln Leu Thr Glu Leu Tyr Leu Tyr Ser Asn
        115                 120                 125

Lys Leu Gln Ser Leu Pro Ala Glu Val Gly Cys Leu Val Asn Leu Met
    130                 135                 140

Thr Leu Ala Leu Ser Glu Asn Ser Leu Thr Ser Leu Pro Asp Ser Leu
145                 150                 155                 160

Asp Asn Leu Lys Lys Leu Arg Met Leu Asp Leu Arg His Asn Lys Leu
                165                 170                 175

Arg Glu Ile Pro Ser Val Xaa Val
            180
```

<210> 5972
<211> 58
<212> PRT
<213> Homo sapiens

<400> 5972

```
Ala His Pro Thr Arg Asn Tyr Val Lys Lys Lys Phe Lys Lys Glu Phe
  1               5                  10                  15

Lys Gly Asp Tyr Ser Val Thr Val Thr Pro Gly Lys Leu Arg Thr Leu
             20                  25                  30

Cys Glu Ile Asp Trp Pro Ala Leu Glu Val Gly Trp Pro Ser Glu Gly
         35                  40                  45

Ser Leu Asp Arg Ser Leu Val Ser Lys Val
     50                  55
```

<210> 5973
<211> 35
<212> PRT
<213> Homo sapiens

<400> 5973
Gly Gln Gln Phe Glu Thr Ser Leu Thr Ile Ser Thr Lys Cys Thr Lys
1 5 10 15

Val Ser Trp Ala Trp Trp Arg Ala Pro Val Ile Pro Ala Thr Trp Glu
20 25 30

Thr Asp Ala
35

<210> 5974
<211> 86
<212> PRT
<213> Homo sapiens

<400> 5974
Arg Asn Ser Gly Phe Cys Cys Asn Arg Phe Ile Phe Leu Leu Phe Ser
1 5 10 15

Pro Ile Leu Ala Gln Ser Gly Ala Ile Val Leu Leu Val Arg Pro Ser
20 25 30

Leu Lys Met Arg Ser Arg Glu Ala Gly Pro Lys Leu Arg Arg Ile Gln
35 40 45

Glu Pro Ala Asn Gly Ser Pro Gly Ala Val Ser Glu Thr Gly Gly Tyr
50 55 60

Arg Glu Glu Arg Leu Ser Asp Ala Glu Ile Met Gly Lys Leu Leu Ala
65 70 75 80

Trp Leu Ala Val Gly Met
85

<210> 5975
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5975
Ile Phe Ser Asn Leu Val Phe Phe Tyr Ile Ile Ile Ala Ser Leu Lys
1 5 10 15

Ile Val Leu Gln Ala Xaa His Gly Trp Val Thr Pro Val Tyr Leu Thr
20 25 30

Leu Trp Glu Ala Glu Ala Gly Lys His Leu Lys Ser Gly Xaa Gln Asn
35 40 45

Asn Pro Gly His Trp
50

<210> 5976
<211> 27
<212> PRT
<213> Homo sapiens

<400> 5976
Cys Leu Gly Ala Tyr Ala Asp Tyr Ser Leu Arg Gly Gly Val Glu Arg
1 5 10 15

Arg Arg Arg Tyr Ala Gly Arg Arg Val Leu Cys
20 25

<210> 5977
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5977
Val Ser Arg Leu Val Ser Lys Glu Phe Ser Lys Ser Trp Ser Cys Gly
1 5 10 15

Gly Cys Ser Tyr Ala Ala Gly Ala Val Thr Glu Arg Gln Glu Gly Leu
20 25 30

Gly Gly Lys Gly Arg Arg Leu Asn Gln Ala Pro Ala Trp Thr Trp Ala
35 40 45

Cys Val Leu Xaa Ser His Leu Ser Ser Arg Thr Gln Val Gly Lys Ser
50 55 60

Leu Ser Gly His Xaa Pro Leu Gly Gly Val Gly Leu Ser Val Pro Phe
65 70 75 80

Leu Ala Val Thr Ser Xaa Cys Ala Arg Val Glu
85 90

<210> 5978
<211> 224
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (151)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (213)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5978
Ala Leu Val Ser Val Leu Thr Lys Glu Tyr Glu Asp Ala Val Ser Ile
1 5 10 15

Ala Thr Ala Val Leu Val Val Val Thr Val Ala Phe Ile Gln Glu Tyr
20 25 30

Arg Ser Glu Lys Ser Leu Glu Glu Leu Thr Lys Leu Val Pro Pro Glu
35 40 45

Cys Asn Cys Leu Arg Glu Gly Lys Leu Gln His Leu Leu Ala Arg Glu
50 55 60

Leu Val Pro Gly Asp Val Val Ser Leu Ser Ile Gly Asp Arg Ile Pro
65 70 75 80

Ala Asp Ile Arg Leu Thr Glu Val Thr Asp Leu Leu Val Asp Glu Ser
85 90 95

Ser Phe Thr Gly Glu Ala Glu Pro Cys Ser Xaa Thr Asp Ser Pro Leu
100 105 110

Thr Gly Gly Gly Xaa Leu Thr Thr Leu Ser Asn Ile Val Phe Xaa Gly
115 120 125

Xaa Leu Val Gln Tyr Gly Xaa Gly Gln Gly Val Xaa Ile Gly Thr Gly

```
    130                 135                 140

Glu Ser Ser Gln Phe Gly Xaa Xaa Phe Lys Met Met Gln Ala Glu Glu
145                 150                 155                 160

Thr Pro Lys Thr Pro Leu Gln Lys Ser Met Asp Arg Leu Gly Lys Gln
                165                 170                 175

Leu Thr Leu Phe Ser Phe Gly Ile Ile Gly Leu Ile Met Leu Ile Gly
            180                 185                 190

Trp Ser Gln Gly Lys Gln Leu Leu Ser Met Phe Thr Ile Gly Val Ser
        195                 200                 205

Leu Ala Val Ala Xaa Ile Ser Xaa Gly Ser Ala His Ser Ser Ser Trp
    210                 215                 220
```

<210> 5979
<211> 155
<212> PRT
<213> Homo sapiens

<400> 5979

```
Pro Cys Cys Ile Trp Lys Ala Lys Trp Gly His Glu Glu Gly Trp Lys
  1               5                  10                  15

Gly Gln Gly Val Met Ala Ala Tyr Leu Val Ser Pro Thr Pro Pro Val
             20                  25                  30

Leu Gly Glu Pro Ser Cys Tyr Thr Gly Ser Ser Pro Arg Ser Ser Phe
         35                  40                  45

Leu Ser Pro Thr Ser Trp Trp Arg Leu Gln Gly Arg Pro Glu Ser Trp
     50                  55                  60

Thr Glu Arg Val Thr Gly Gly Val Gly Asp Lys His Gln Thr Ser Ile
 65                  70                  75                  80

Val Cys Pro Asp Leu Gly Val Ile Gly Gly Met Gly Trp Glu Arg Val
                85                  90                  95

Ser Trp Tyr Ser His Gly Leu Ile Phe Phe Val Ser Ile Pro Phe Ile
            100                 105                 110

Ser Leu Cys Leu Asn Arg Gly Gly Gly Val Val Thr Gly Asn Lys Asp
        115                 120                 125
```

Leu Arg Ser Ser Ala Pro Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
130 135 140

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
145 150 155

<210> 5980
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5980
Ile Arg His Glu Gly Thr Leu Pro Leu Gln Arg Val Arg Ala Leu Leu
1 5 10 15

His Pro Gln Arg Ser Xaa Ala Lys His Leu Arg Gly His Ala Ser Val
20 25 30

Arg Pro Cys Arg Cys Asn Glu Cys Xaa Lys Ser Phe Ser Arg Arg Asp
35 40 45

His Leu Val Arg His Gln Arg Thr His Thr Gly Glu Lys Pro Phe Thr
50 55 60

Cys Pro Thr Cys Gly Lys Ser Phe Ser Arg Gly Tyr His Leu Ile Arg
65 70 75 80

His Gln Arg Thr His Ser Glu Lys Thr Ser
85 90

<210> 5981
<211> 54
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5981
Phe Ser Ser Pro Gly Val Val Gly Arg Cys Lys Leu Lys Gly Thr Leu
1 5 10 15

Gly Gly Gly Gly Arg Gly Glu Asp Asp Ser Asp Pro Ser Pro Val Gly
20 25 30

Val Arg Ile Thr Gln Glu Leu Arg Xaa Arg Glu Glu Gly Xaa Arg Arg
35 40 45

Leu Gln Leu Leu Gln Gly
50

<210> 5982
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5982
Gly Arg Gln Pro Ala Pro Leu Val Pro Pro Cys Ser Ser Ser His Tyr
1 5 10 15

His Arg Pro His Thr Leu Thr Arg Thr Leu Thr His Arg Ser Leu Gln
20 25 30

Arg Met Arg Trp Gly Tyr Asp Arg Ser Leu Arg Leu Val Ser Xaa Ser
35 40 45

Leu Leu Gln Pro Pro Pro Gly Phe Gln Pro Ile Leu Phe Ala Ala Gly
50 55 60

Val Pro Thr Leu Pro Tyr Ser Gln Leu Leu Phe Pro Ala Asp Gly Glu
65 70 75 80

Met Asp Ser Ala Ala Tyr Pro Pro Thr Pro Leu Gln Gly Val Glu Asp

85 90 95

<210> 5983
<211> 78
<212> PRT
<213> Homo sapiens

<400> 5983
Glu Lys Thr Gln Val Cys Asp Ile Ser Val Ile Pro Lys Asn Ile Leu
1 5 10 15

Gly Phe Leu Phe Val Phe Leu Phe Phe Gly Phe Phe Phe Phe Thr Ala
20 25 30

Glu Asn Trp Trp Tyr Phe His Ile His Ser Val Ser Ile Gln Phe Gln
35 40 45

Tyr Pro His Leu Met Arg Lys Lys Cys Phe Thr Asn Glu Gly Gly Ile
50 55 60

Leu Lys Leu Ala Val Met Leu Gly Trp Arg Lys Phe Gly Ile
65 70 75

<210> 5984
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5984
Lys Ile Thr Met Trp Met Ala Val Ser His Ile Thr Asp Val Glu Ser
1 5 10 15

Ile Ile Leu Tyr Leu Tyr Phe Gln Ile Asn Lys Phe Val Lys Gly Phe
20 25 30

His Pro Leu Leu Trp Ser Arg Lys Met Leu Glu Ile Tyr Ile Xaa Ile
35 40 45

Asp Thr Tyr Ile Cys Ile Tyr Ile Lys Lys Ile Leu Thr Thr Lys Val

```
     50                  55                  60

Pro Glu Pro Pro Ser Lys Val Leu Tyr Tyr Cys Ile Leu Tyr Ile Met
 65                  70                  75                  80

Tyr His Pro Met Trp Asn Leu
                 85
```

<210> 5985
<211> 101
<212> PRT
<213> Homo sapiens

<400> 5985

```
Asp Lys Ser Ile Lys Asn Lys Ala Glu Arg Glu Arg Arg Val Arg Glu
  1               5                  10                  15

Leu Asn Ser Ser Asn Thr Lys Lys Phe Leu Glu Glu Arg Lys Arg Leu
             20                  25                  30

Ala Met Lys Gln Ser Lys Glu Met Asp Gln Leu Lys Lys Val Gln Leu
         35                  40                  45

Glu His Leu Glu Phe Leu Glu Lys Gln Asn Glu Gln Leu Leu Lys Ser
     50                  55                  60

Cys His Ala Val Ser Gln Thr Gln Gly Glu Gly Asp Ala Ala Asp Gly
 65                  70                  75                  80

Glu Ile Gly Ser Arg Asp Gly Pro Gln Thr Ser Asn Ser Ser Met Lys
                 85                  90                  95

Leu Gln Asn Ala Asn
             100
```

<210> 5986
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5986

```
Lys Ser Ser Arg Gly Asn Thr Gln Ala Thr Ser His Ser Phe Asp Val
```

```
  1               5                  10                  15

Arg Val Leu Thr Gln Leu Leu Leu Asn Ser Asp His Arg Ser Thr Ala
             20                  25                  30

Thr Val Gln Ile Cys Ser Gly Ser Val Asn Leu Lys Gly Ala Val Lys
         35                  40                  45

Cys Arg Ala Tyr Ile His Ser Ser Lys Pro Lys Val Lys Asp Ala Val
     50                  55                  60

Gln Ala Val Lys Arg Asp Ile Leu Asn Thr Val Ala Asp Arg Cys Glu
 65                  70                  75                  80

Met Leu Phe Glu Asp Leu Leu Leu Asn Glu Ile Pro Glu Lys Lys Xaa
                 85                  90                  95

Ser Glu Lys Glu Phe His Val Leu Pro Tyr Arg Val Phe Val Pro Leu
            100                 105                 110

Pro Gly Ser Thr Val Met Leu Cys Asp Tyr Lys Phe Asp Asp Glu Ser
        115                 120                 125

Ala Glu Glu Ile Arg Asp His Phe Met Glu Met Leu Asp His Thr Ile
    130                 135                 140

Gln Ile Glu Asp Leu Glu Ile Ala Glu Glu Thr Asn Thr Ala Cys Met
145                 150                 155                 160

Ser Ser Ser Met Asn Ser Gln Ala Ser Leu Asp Asn Thr Asp Asp Glu
                165                 170                 175

Gln Pro Lys Gln Pro Ile Lys Thr Thr Met Leu Leu Lys Ile Gln Gln
            180                 185                 190

Asn Ile Gly Val Ile Ala Ala Phe Thr Val Ala Val Leu Ala Ala Gly
        195                 200                 205

Ile Ser Phe His Tyr Phe Ser Asp
    210                 215
```

<210> 5987
<211> 67
<212> PRT
<213> Homo sapiens

<400> 5987

```
Pro Phe Leu Val Ser Val Phe Pro Gly Glu Asn Glu Ala Lys Gln Glu
  1               5                  10                  15
```

Phe Gly Phe Leu Leu Met Ser Ser Tyr Thr Ile His Ser Val Asn Phe
20 25 30

Glu Lys Ile Tyr Pro Pro Phe Ser Leu Leu Gly Asp Ile Asn Tyr Ser
35 40 45

Gln Glu Glu Tyr Asn Glu Leu Tyr Ser Tyr Phe Asp Leu Leu Lys Arg
50 55 60

Cys Tyr Gln
65

<210> 5988
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5988
Pro Ala Glu Leu Lys Cys Ala Val Thr Ser Gln Cys Glu Phe Leu Pro
1 5 10 15

Asn Ser Arg Ala Tyr His Leu Lys Lys Glu Arg Thr Glu Glu Gln Thr
20 25 30

Lys Val Leu Arg Asn Glu Thr His Leu Phe Ser Leu Lys Ala Leu Arg
35 40 45

Gly Gly Arg Arg Pro Ala Gln Ala Gly Gly Gly Phe Gly Gln Ser Glu

```
     50                  55                  60

Asp Pro Ala Arg Thr Leu Val Arg Trp Xaa Ala Ala His Leu Leu Arg
 65                  70                  75                  80

Ile Leu Leu Glu Ser Cys Ser Pro Arg Gly Leu Leu Xaa Xaa Trp Xaa
                85                  90                  95

Lys Glu Ala Ala Trp Cys Gly Val Thr Gln Ile Ser Ile Pro Ile Cys
            100                 105                 110

Cys Thr Phe Thr Leu Gln Gly Thr Cys Phe Lys Thr Asp Pro Gln Gln
        115                 120                 125

Val Leu Glu Lys Cys Ile Gln Ser Glu Asp Val Cys Val Ser Val Tyr
    130                 135                 140

Ile Gln Ser Ser Val Thr His Ala Pro Gln Ile Ala Ala Lys Ile Pro
145                 150                 155                 160

Arg His
```

<210> 5989
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5989

```
Asn Cys Ala Phe Ser Gly Leu Leu Ser Ser Ile Pro Ser Phe Ser Leu
  1               5                  10                  15

Leu Ser Ser Phe Gln His Val Thr Val Lys Ala Phe Ser Leu Ile Phe
             20                  25                  30

Tyr His Cys Glu Tyr Val Pro Phe Glu Asn Pro Phe Ala Val Ile Phe
         35                  40                  45

Val Gly Phe Gly Glu Glu Ala Val Val Asn Ala Cys Ile Ile Leu Ser
```

50 55 60

Ser Lys Cys Ser Met Leu Ala Leu Leu Ile Ser Gly Asp Val Arg Xaa
65 70 75 80

Gln Leu Leu Ser Leu Xaa Lys
85

<210> 5990
<211> 71
<212> PRT
<213> Homo sapiens

<400> 5990
Arg Pro Ala Glu Asp Val Leu Gln Val Arg Glu Thr Gly Pro Gly Asn
1 5 10 15

Pro Ala Val Thr Glu Asp Tyr Ile Glu Phe Glu Asn Val Gly Ile Phe
20 25 30

Glu Asn Ala Pro Pro Lys Lys Leu Leu Met Ser Ser Gly Asn Val Arg
35 40 45

Arg Leu Ile Tyr Thr Asp Thr Ala Glu Glu Lys Gly Arg Arg Ile Lys
50 55 60

Asp Pro Val Leu Leu Pro Gly
65 70

<210> 5991
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5991

```
Gly Tyr Trp Thr Phe Asp Met Glu Cys Tyr Lys Lys Tyr Arg Lys Val
  1               5                  10                  15

Trp Gly Ile Tyr Asp Cys Gln Gln Pro Met Leu Ala Ile Thr Asp Pro
             20                  25                  30

Asp Met Ile Lys Thr Val Leu Val Lys Glu Cys Tyr Ser Val Phe Thr
         35                  40                  45

Asn Arg Xaa Pro Phe Gly Pro Val Gly Phe Met Lys Asn Ala Ile Ser
     50                  55                  60

Ile Ala Glu Asp Glu Glu Trp Lys Arg Ile Arg Ser Leu Leu Ser Pro
 65                  70                  75                  80

Thr Phe Thr Ser Gly Lys Leu Lys Glu Met Phe Pro Ile Ile Ala Gln
                 85                  90                  95

Tyr Gly Asp Val Leu Val Arg Xaa Leu Arg Arg Glu Ala Glu Lys Gly
            100                 105                 110

Lys Pro Val Thr Leu Lys Asp Xaa Phe Gly Ala Tyr Ser Met Asp Val
        115                 120                 125

Ile Thr Xaa Thr Ser Phe Gly Val Xaa Ile Asp Ser Leu Asn Asn Pro
    130                 135                 140

Gln Asp Pro Phe Val Glu Ser Thr Lys Lys Phe Leu Lys Phe Gly Phe
145                 150                 155                 160

Leu Asp Pro Leu Phe Leu Ser Ile Ile Leu Phe Pro Phe Leu Thr Pro
                165                 170                 175

Val Phe Glu Ala Leu Asn Val Ser Leu Phe Pro Lys Asp Thr Ile Asn
            180                 185                 190

Phe Leu Ser Lys Ser Val Asn Arg Met Lys Lys Ser Arg Leu Asn Asp
        195                 200                 205
```

Lys Gln Lys Val Lys Ser Asp Gly Gly
210 215

<210> 5992
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5992
Val Pro Pro Ala Cys Cys Ala Ser Arg Val Ala Arg Leu Gly Phe Ser
1 5 10 15

Arg Cys Thr Cys Pro Arg Trp Pro Gly Pro Xaa Ala Xaa Arg Ala Ala
20 25 30

Ala Gly Ala Leu Pro Arg Gly Gln Val Arg Ile Trp Pro Arg Ser His
35 40 45

Pro Ser Ser Thr Ala Arg Thr Pro His Ser Leu Pro Gln Ser Ile Cys
50 55 60

Leu Ser Pro Met Gly Lys Leu Ile Asn Phe Ala Leu Asp
65 70 75

<210> 5993
<211> 68
<212> PRT
<213> Homo sapiens

<400> 5993
Lys Met Leu Asn Arg Phe His Asp Cys Leu Leu Glu Asp Phe Lys Val
1 5 10 15

His Cys Gly Ser Ser Arg Arg Asn Pro Val Asn His Ser Ser His Leu
20 25 30

```
Pro Thr Gly Leu Phe Ser Asn Gly Ala Ser Cys Glu Ala Ser Gly Phe
         35                  40                  45

Phe Cys Cys Cys Tyr Leu Phe Phe Phe Phe Asn Ala Leu Glu Asn Thr
     50                  55                  60

Ala Leu Gly Tyr
 65
```

<210> 5994
<211> 128
<212> PRT
<213> Homo sapiens

<400> 5994

```
Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Leu Leu Ser Pro Ala
  1               5                  10                  15

Leu Pro Cys Thr Val His Ser Ser Ser Thr Met Ala Ser Arg Thr Pro
             20                  25                  30

Arg Asn Cys Ala Val Leu Lys Gly Glu Val Asp Leu Thr Ala Leu Ala
         35                  40                  45

Lys Glu Leu Arg Ala Val Glu Asp Val Arg Pro Pro His Lys Val Thr
     50                  55                  60

Asp Tyr Ser Ser Ser Ser Glu Glu Ser Gly Thr Thr Asp Glu Glu Asp
 65                  70                  75                  80

Asp Asp Val Glu Gln Glu Gly Ala Asp Glu Ser Thr Ser Gly Pro Glu
                 85                  90                  95

Asp Thr Arg Ala Ala Ser Ser Leu Asn Leu Ser Asn Gly Glu Thr Glu
            100                 105                 110

Ser Val Lys Thr Met Ile Val His Asp Asp Val Glu Ser Glu Pro Ala
        115                 120                 125
```

<210> 5995
<211> 52
<212> PRT
<213> Homo sapiens

<400> 5995
His Ser Leu Lys Tyr Ile Tyr Leu Ile Thr Phe Tyr Asn Lys Glu Leu
1 5 10 15

Leu Ser Pro Asn Val Ile Ser Ala His Phe Glu Ile Pro Cys Tyr Arg
20 25 30

Trp Ser Leu Gln Thr Arg Lys Tyr Ser Ser Tyr Tyr Val Tyr Thr Leu
35 40 45

Val Leu Val Leu
50

<210> 5996
<211> 75
<212> PRT
<213> Homo sapiens

<400> 5996
Ile Ser Pro Gly Gln Ser Gly Met Leu Thr Gly Thr Asn Val Arg Asn
1 5 10 15

Cys Ile Val His Cys Thr Cys Cys Pro Val Pro Gln Ala Cys Gln Cys
20 25 30

Leu Glu Ile Leu Phe Gly Leu Leu Lys Pro Leu Phe Ile Glu Asn Phe
35 40 45

Cys Pro Tyr Arg Ser Val Cys Met Gly Leu Gly Lys Ser Thr Cys Val
50 55 60

Tyr Leu Ser Ser Glu Ala Gln Ile His Ser Asn
65 70 75

<210> 5997
<211> 63
<212> PRT
<213> Homo sapiens

<400> 5997
Pro Asp Leu Phe Ala His Arg Glu Val Pro Leu Ser Leu His Gly Leu
1 5 10 15

Ser Asp Leu Ile Pro Pro His Ser Gln Phe Gln Val Val Glu Gln Asp
20 25 30

Glu Ala Ala Pro Ser Pro Leu Pro His Pro Asp Ser Ala Ala Glu Phe

35 40 45

Ile Pro Gln Glu Arg Gly Ser Thr Asp Ser Val His Ala Cys Gly
50 55 60

<210> 5998
<211> 226
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (125)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5998
Xaa Ser Ala Ser Leu Xaa Glu Gln Lys Leu Glu Leu His Arg Gly Gly
1 5 10 15

Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
20 25 30

Arg Ser Gly Gly Pro Arg Leu Pro Gln Ala Gln Lys Thr Ala Ala Leu
35 40 45

```
Pro Arg Thr Arg Gly Ala Gly Leu Leu Glu Ser Glu Leu Arg Asp Gly
     50                  55                  60

Ser Gly Lys Lys Val Ala Val Ala Asp Val Gln Phe Gly Pro Met Arg
 65                  70                  75                  80

Phe His Gln Asp Gln Leu Gln Val Leu Leu Val Phe Thr Lys Glu Asp
                 85                  90                  95

Asn Gln Cys Asn Gly Phe Cys Arg Ala Cys Glu Lys Ala Gly Phe Lys
            100                 105                 110

Cys Thr Val Thr Lys Glu Ala Gln Ala Val Leu Ala Xaa Phe Leu Asp
        115                 120                 125

Lys His His Asp Ile Ile Ile Ile Asp His Arg Asn Pro Arg Gln Leu
    130                 135                 140

Asp Ala Glu Ala Leu Cys Arg Ser Ile Arg Ser Ser Lys Leu Ser Glu
145                 150                 155                 160

Asn Thr Val Ile Val Gly Val Val Arg Xaa Val Asp Arg Glu Glu Leu
                165                 170                 175

Ser Val Met Pro Phe Ile Ser Ala Gly Phe Thr Arg Arg Tyr Val Glu
            180                 185                 190

Asn Pro Asn Ile Met Ala Cys Tyr Asn Glu Leu Leu Gln Leu Glu Phe
        195                 200                 205

Gly Glu Gly Ala Ile Thr Thr Xaa Thr Xaa Gly Leu Leu Leu Lys Tyr
    210                 215                 220

Ser Leu
225
```

<210> 5999
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 5999
Gly Xaa Val Gly Pro Ser Leu Val Ser Arg Ile Glu Asn Ile Gln Asn

```
 1               5                  10                  15

Asp Ile Ser Leu Val Ser Phe Glu Gly Asn Asn Gln Arg Trp Ser Thr
            20                  25                  30

Gln Leu Leu Val Leu Leu Phe Thr Ile Ser His Leu Val Gln Ser Gly
        35                  40                  45

Ser Tyr Ile
    50
```

<210> 6000
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6000

```
Val Leu Asn Ser Met Leu Lys Ser Asn Trp Ile Trp Ser Arg Pro Thr
 1               5                  10                  15

Pro Arg Val Val Ser Gly Val Phe Phe Gln Xaa Leu Ser Gln Thr Thr
            20                  25                  30

Gln Val Xaa Leu Xaa Leu Xaa Ala Ala Leu Trp Xaa Gly Val Glu Gly
```

35 40 45

Gly Gly Gln Gln Met His Cys Arg Val Ile Phe Leu Gly Met Val Phe
50 55 60

Lys Lys Pro Glu Ile Phe Thr Arg Thr Ser Lys Thr Arg Ser Gly Glu
65 70 75 80

Leu Gly Arg

<210> 6001
<211> 146
<212> PRT
<213> Homo sapiens

<400> 6001
Arg Cys Pro Ile Ala Ser Glu Val Pro Trp Thr Ile Thr Glu Ala Glu
1 5 10 15

Leu Arg Val Thr Leu Thr Val Glu Gly Lys Ser Ile Pro Cys Leu Ile
20 25 30

Asp Thr Gly Ala Thr His Ser Thr Leu Pro Ser Phe Gln Gly Pro Val
35 40 45

Ser Leu Ala Pro Ile Thr Val Val Gly Ile Asp Gly Gln Ala Ser Lys
50 55 60

Pro Leu Lys Thr Pro Pro Leu Trp Cys Gln Leu Gly Gln His Ser Phe
65 70 75 80

Met His Ser Phe Leu Val Ile Pro Thr Cys Pro Leu Pro Leu Leu Gly
85 90 95

Arg Asn Ile Leu Thr Lys Leu Ser Ala Ser Leu Thr Ile Pro Gly Val
100 105 110

Gln Leu His Leu Ile Ala Ala Leu Leu Pro Asn Pro Lys Pro Pro Leu
115 120 125

Cys Pro Leu Thr Ser Pro Gln Tyr His Pro Leu Pro Gln Asp Leu Pro
130 135 140

Ser Ala
145

<210> 6002
<211> 111
<212> PRT
<213> Homo sapiens

<400> 6002
Ile Pro Tyr Ser Ala Tyr Ile Lys Ser Lys Met Trp Gly Arg Ser Leu
1 5 10 15

Leu Leu Pro Gly Gly Asp Gly Ser Pro Leu Thr Leu Leu Gly Glu Gly
20 25 30

Gly Ser Cys Trp Pro Val Gly Met Lys Val Leu Ala Pro His Leu Val
35 40 45

Phe Pro Asp Thr Thr Ala Val Gly Cys Trp Gly Ala Pro Leu Gln Pro
50 55 60

Phe Glu Cys Gly Ile Leu Gly Ser Pro Leu Asp Leu Pro Trp Cys Gly
65 70 75 80

Gln Arg Phe Phe Leu Trp Cys Leu Leu Gly Val Glu Gln Leu Ser Ser
85 90 95

Lys Ser Phe Leu Ser Cys Trp Asp Val Leu Phe Trp Ser Phe Ser
100 105 110

<210> 6003
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6003
Arg Trp Ala Leu Asp Leu Leu Ile Leu Val Lys Trp Val Trp Asp Leu
1 5 10 15

Leu Thr Phe Val Leu Arg Arg Asp Arg Pro Gly Lys Glu Leu Gly Glu
20 25 30

Val Ser Ser Lys Glu Arg Gly Val Gly Thr Arg Met Glu Glu Ser Gly
35 40 45

Leu Gln Ile Ala Phe Thr Ser Pro Phe Phe Leu Glu Ser Leu Ser Xaa
50 55 60

Arg
65

<210> 6004
<211> 427
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (301)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6004
Ala Ala Cys Cys Phe Ser Cys Trp Ala Ser Ser Gly Phe Ala Phe Val
1 5 10 15

Ala Ser Glu Pro Leu Ala Phe Lys Pro Leu Ser Leu Leu Leu Pro His
20 25 30

Thr Pro Leu Ser Leu Thr Pro Leu Phe Cys Cys Pro Val Thr Cys Pro
35 40 45

Lys Leu Cys Pro Glu Leu Arg Thr Phe Pro Phe Leu Ser Leu Glu Pro
50 55 60

Phe Phe Asp Ser Thr Lys Pro Ser Trp Tyr Pro Gly Met Thr Arg Leu
65 70 75 80

Leu Asp Ala Glu Trp Trp Arg Arg Ser Glu Ala Gly His Leu Arg Arg
85 90 95

Gln Val Ala Ala Val Leu Phe Phe Pro Glu Gly Thr Cys Ser Asn Lys
100 105 110

Lys Ala Leu Leu Lys Phe Lys Pro Gly Ala Phe Ile Ala Gly Val Pro
115 120 125

Val Gln Pro Val Leu Ile Arg Tyr Pro Asn Ser Leu Asp Thr Thr Ser
130 135 140

Trp Ala Trp Arg Gly Pro Gly Val Leu Lys Val Leu Trp Leu Thr Ala
145 150 155 160

Ser Gln Pro Cys Ser Ile Val Asp Val Glu Phe Leu Pro Val Tyr His
165 170 175

Pro Ser Pro Glu Glu Ser Arg Asp Pro Thr Leu Tyr Ala Asn Asn Val

```
            180                 185                 190

Gln Arg Val Met Ala Gln Ala Leu Gly Ile Pro Ala Thr Glu Cys Glu
        195                 200                 205

Phe Val Gly Ser Leu Pro Val Ile Val Val Gly Arg Leu Lys Val Ala
    210                 215                 220

Leu Glu Pro Gln Leu Trp Glu Leu Gly Lys Val Leu Arg Lys Ala Gly
225                 230                 235                 240

Leu Ser Ala Gly Tyr Val Asp Ala Gly Ala Glu Pro Gly Arg Ser Arg
                245                 250                 255

Met Ile Ser Gln Glu Glu Phe Ala Arg Gln Leu Gln Leu Ser Asp Pro
            260                 265                 270

Gln Thr Val Ala Gly Ala Phe Gly Tyr Phe Gln Gln Asp Thr Lys Gly
        275                 280                 285

Leu Val Asp Phe Arg Asp Val Ala Leu Ala Leu Ala Xaa Leu Asp Gly
    290                 295                 300

Gly Arg Ser Leu Glu Glu Leu Thr Arg Leu Ala Phe Glu Leu Phe Ala
305                 310                 315                 320

Glu Glu Gln Ala Glu Gly Pro Asn Arg Leu Leu Tyr Lys Asp Gly Phe
                325                 330                 335

Ser Thr Ile Leu His Leu Leu Leu Gly Ser Pro His Pro Ala Ala Thr
            340                 345                 350

Ala Leu His Ala Glu Leu Cys Gln Ala Gly Ser Ser Gln Gly Leu Ser
        355                 360                 365

Leu Cys Gln Phe Gln Asn Phe Ser Leu His Asp Pro Leu Tyr Gly Lys
    370                 375                 380

Leu Phe Ser Thr Tyr Leu Arg Pro Pro His Thr Ser Arg Gly Thr Ser
385                 390                 395                 400

Gln Thr Pro Asn Ala Ser Ser Pro Gly Asn Pro Thr Ala Leu Ala Asn
                405                 410                 415

Gly Thr Val Gln Ala Pro Lys Gln Lys Gly Asp
            420                 425
```

<210> 6005
<211> 68

<212> PRT
<213> Homo sapiens

<400> 6005
Ile Tyr Thr Asn Arg Lys Leu Gly Thr Asn Leu Leu Cys Leu Trp Leu
1 5 10 15

Leu Tyr Asn Tyr Gln Gly Lys Gly Asn Leu Pro Ile Lys Tyr Lys Val
20 25 30

Val Lys Phe Lys Ile Thr Ile Ile Asn Asn Val Leu Leu Leu Gln Asn
35 40 45

Glu Met Leu Gly Leu Ile Ile Glu Gly Ser Ser Thr Val Glu Ile Glu
50 55 60

Leu Asn Gly Ser
65

<210> 6006
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6006
Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Val Lys Leu Xaa Phe
1 5 10 15

Xaa Tyr Gln Tyr Met His Val Leu Cys Met Ser Ser Thr Cys Val Asp
20 25 30

Thr Pro Val Asp Val Lys Leu Leu Tyr Asn Ile Asn Ser Met Cys Phe
35 40 45

Tyr Ile Ser Leu Cys Lys Phe Asn Ile Thr Tyr Ala Val Ile Asn His
50 55 60

Leu Phe Tyr Cys Cys
65

<210> 6007
<211> 97
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6007
Gln Met Glu Gly Tyr Phe Ser Val Leu Ala Phe Gln Leu Tyr Val Gly
1 5 10 15

Lys Leu Pro Val Leu Leu Gln Val Gln Ser Thr Leu Asp Asp Leu Ser
20 25 30

Ile Asn Tyr Ser Gly Cys Asn Ser Pro Lys Xaa Ser Ser Tyr Ile Phe
35 40 45

Trp Leu Ile Pro Pro His Leu Ser Ile Gln Ser Asp Gly Lys Arg Gly
50 55 60

```
Arg Trp Ile Leu Met Ser Cys Xaa Leu Xaa Pro Tyr Phe Gln Val Leu
 65                  70                  75                  80

Trp Trp Xaa Arg Xaa Asn Ile Cys Gln Xaa Ser Gly Phe Leu Ala Arg
                 85                  90                  95

Cys
```

<210> 6008
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6008

```
Ile Ile Leu Tyr Gln Gly Gln Arg Asp Phe Cys Arg Thr Ser Pro Leu
  1               5                  10                  15

Glu Glu Leu Ser Leu Gly Arg Asn Thr Arg Ile Asn Ile Ser Thr Tyr
             20                  25                  30

Ser Ser Pro Lys Asn Phe Pro Pro His Tyr Ser His Leu Pro Ile Asn
         35                  40                  45

Asn Leu Leu Trp Val Asn Ile Gln His Ser Val Leu Val Gln Ser Ile
     50                  55                  60

Cys Ser Ala Ile Thr Val Xaa Ser Thr Xaa
 65                  70
```

<210> 6009
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6009
Met Pro Gly Ile Val Cys Lys Gly Ile Val Asp Asn Lys Val Ile Leu
1 5 10 15

Met Thr Arg Xaa Lys Ser Phe Leu Leu Ser Leu Ile Arg Pro Leu Val
20 25 30

Gly Trp Gly Val Gly Arg Arg Val Val Leu Thr Glu Ser Phe Lys
35 40 45

<210> 6010
<211> 150
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6010
Gly Val Tyr Leu Asn Val Leu Pro Ser Pro Phe Pro Ser Arg Leu Cys
1 5 10 15

Ser Phe Glu Gly Leu Gly Val Cys Ser Arg Pro Cys Cys Leu Ala Gln
20 25 30

Asn Met Leu Arg Lys Val Leu Arg Thr His Phe Phe Pro Ile Lys Pro
35 40 45

Ile Ser Phe Pro Asn His Lys Gly Val Cys Asp Ser Ser Pro Arg Glu

50 55 60

Thr Lys Glu Leu Gln Xaa Gly Val Trp Phe Ser Pro Val Gln Thr His
65 70 75 80

Pro Glu Leu Xaa Arg Cys Leu Ser Asn Thr Leu Ser Leu Pro Lys Gln
85 90 95

Pro Val Gln Thr Phe Ser Leu Gly His Glu Ala Pro Arg Val Leu Pro
100 105 110

Val Pro Xaa Ser Asp Ala Tyr Leu Ser Ala Glu Pro Gln Asn Leu Cys
115 120 125

Ser Gly Asn Ala Val His Leu Leu Ser Val Gly Ser Glu His Ile Val
130 135 140

Leu Xaa Asp Thr Ser Phe
145 150

<210> 6011
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (61)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6011
Val Leu Arg Met Gln His Gly Ser Gly Phe Gly Ile Xaa Phe Asn Ala
1 5 10 15

Thr Asp Ala Leu Arg Cys Val Asn Asn Tyr Gln Gly Met Leu Lys Val
20 25 30

Ala Cys Ala Glu Glu Trp Gln Glu Ser Arg Thr Glu Gly Glu His Ser
35 40 45

Lys Glu Val Ile Lys Pro Tyr Asp Trp Thr Tyr Xaa Xaa Asp Tyr Lys
50 55 60

Gly Xaa Leu Leu Gly Glu Ser Leu Lys Leu Lys Val Xaa Ser Ile
65 70 75

<210> 6012
<211> 81
<212> PRT
<213> Homo sapiens

<400> 6012
Ile Phe Arg Ser Asp Phe Leu Leu His Phe Tyr Leu Thr Lys Glu Thr
1 5 10 15

Gly His Thr Pro Trp Phe Arg Asp Val Val Ile Ala Tyr Leu Pro Val
20 25 30

Phe Lys Lys Cys Phe Leu Gln Leu Leu Ser Thr Thr Val Leu Ser Leu
35 40 45

Met Asn Thr Val Val Ser His Pro Asn Ser Cys Thr Glu Ile Ile Ser
50 55 60

His Glu Ser Phe Ser Asn Ile Ser Asn Glu Ser Phe Ser Asn Leu Gly
65 70 75 80

Ala

<210> 6013
<211> 112
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6013

```
Gln Leu Pro Val Gln Gly His Gly Leu Phe Gly Ala Gln Glu Val Leu
  1               5                  10                  15

Asn His Val Leu Arg Asp Ile Glu Leu Phe Met Gly Lys Leu Glu Lys
             20                  25                  30

Ala Gln Ala Lys Thr Ser Xaa Lys Lys Lys Phe Gly Lys Lys Asn Lys
         35                  40                  45

Asp Gln Gly Gly Leu Thr Gln Ala Gln Tyr Ile Asp Cys Phe Gln Lys
     50                  55                  60

Ile Lys His Ser Phe Asn Leu Leu Gly Arg Leu Ala Thr Trp Leu Lys
 65                  70                  75                  80

Glu Thr Ser Ala Pro Glu Leu Val His Ile Leu Phe Lys Xaa Leu Asn
                 85                  90                  95

Phe Xaa Leu Ala Arg Cys Pro Glu Ala Gly Xaa Ala Ala Gln Val Ile
            100                 105                 110
```

<210> 6014
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (78)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6014
Leu Glu Glu Asp Ile Ser Lys Lys Met Asp Lys Asp Glu Glu Ala Leu
1 5 10 15

Lys Ala Ala Gln Ala Glu Leu Xaa Glu Ala Arg Arg Gln Trp His His
20 25 30

Leu Gln Val Glu Ile Glu Ser Leu His Ala Val Glu Arg Gly Leu Glu
35 40 45

Asn Ser Leu His Ala Xaa Glu Gln His Tyr Gln Met Gln Leu Gln Asp
50 55 60

Leu Glu Thr Val Xaa Xaa Gly Leu Glu Lys Glu Leu Gln Xaa Val Lys
65 70 75 80

Xaa Xaa Xaa Xaa Lys Ala Ala Phe Lys Xaa Thr Xaa Xaa Xaa Phe
85 90 95

<210> 6015
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6015
Leu Arg Ala His Thr Val Arg His Glu Glu Lys Val Pro Cys His Val
1 5 10 15

Cys Gly Lys Met Leu Ser Pro Ala Asp Pro Phe Asn Phe
20 25

<210> 6016
<211> 53

<212> PRT
<213> Homo sapiens

<400> 6016
Gln Gly Pro Thr Glu Val Lys Glu Gly Gly Trp Glu Cys Tyr Ser Leu
1 5 10 15

Glu Trp Arg Cys Asp Phe Ser Arg Trp Lys Val Val Phe Leu Lys Gly
20 25 30

Ile Gly Arg Ser Arg Phe Leu Leu Ile Gln Ile His Phe Pro Pro Thr
35 40 45

Glu Gly Arg Asn Tyr
50

<210> 6017
<211> 29
<212> PRT
<213> Homo sapiens

<400> 6017
Pro Arg Val Val Phe His Leu Asn Leu His Pro Pro Pro Pro Gly Asp
1 5 10 15

Tyr Phe Glu Ile Asn Leu Arg His Gln Gly Gln Ala Gln
20 25

<210> 6018
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6018
Ser Phe His Asn Thr Leu Ala Phe Pro Tyr Leu Tyr Gly Leu Tyr Leu
1 5 10 15

Val Asn Leu Asn Lys Asn Leu Asp Phe Lys Lys Asn Trp Glu Arg Arg
20 25 30

Xaa Val Ile Leu Leu Ala Phe Ser Ser Leu Asp Val Gly Ser His Asn
35 40 45

Ser Asn Ile Glu Gly Lys Phe Cys Phe Cys Lys Ile Gly Leu Lys Leu
50 55 60

Arg Ser Phe His Glu Arg Xaa Xaa Xaa Thr Cys Thr Ser Ala
65 70 75

<210> 6019
<211> 59
<212> PRT
<213> Homo sapiens

<400> 6019
Ser Ala Thr Cys Leu Phe Glu Val Leu Tyr Gln Ser Val Thr Arg Ala
1 5 10 15

Phe Cys Val Cys Ala Ile Leu Cys Leu Ser Phe Lys Val Ala Pro Lys
20 25 30

Val Ser His Leu Ala Phe Gln Gln Gly His Phe Leu Ser Phe Tyr Asn
35 40 45

Met Gln Tyr Ile Cys Asn Asp Leu Ala Phe Phe
50 55

<210> 6020
<211> 62
<212> PRT
<213> Homo sapiens

<400> 6020
Arg Ser His Ile Leu Leu Leu Ser Gly Cys Phe Ser Ile Leu Cys Pro

```
 1               5                  10                  15

Phe Pro Gln Gln Gln Val Gly Pro Arg Leu Cys Thr Ala Leu Arg Cys
            20                  25                  30

Arg Trp Tyr Arg Asp Asn Cys Leu Asn Ser Cys Ala Asp Phe Cys Asn
        35                  40                  45

Ser Ala Val Glu Thr Lys Val Leu Glu Ser Val Leu Ser Met
    50                  55                  60
```

<210> 6021
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6021

```
Ser Gly Gly Ser Ser Val His Leu Ser Asp Pro Val Ala Pro Ser Ser
 1               5                  10                  15

Ala Gly Leu Tyr Phe Glu Pro Glu Pro Ile Ser Ser Thr Pro Asn Tyr
            20                  25                  30

Leu Gln Arg Gly Glu Phe Xaa Ser Cys Val Ser Cys Glu Glu Asn Ser
        35                  40                  45

Ser Cys Leu Asp Gln Ile Phe Asp Ser Tyr Leu Gln Thr Glu Met His
    50                  55                  60

Pro Glu Pro Leu Leu Asn Ser Thr Gln Ser Ala Pro His His Phe Pro
65                  70                  75                  80

Asp Ser Phe Gln Ala Thr Pro Phe Cys Phe Asn Gln Ser Leu Ile Pro
                85                  90                  95

Gly Ser Pro Ser Asn Ser Ser Ile Leu Ser Gly Ser Leu Asp Tyr Ser
            100                 105                 110

Tyr Ser Pro Val Gln Leu Pro Ser Tyr Ala Pro Glu Asn Tyr Asn Ser
        115                 120                 125

Pro Ala Ser Leu Asp Thr Arg Thr Cys Gly Tyr Pro Pro Glu Asp His
    130                 135                 140
```

```
Ser Tyr Gln His Leu Ser Ser His Ala Gln Tyr Ser Cys Phe Ser Ser
145                 150                 155                 160

Ala Thr Thr Ser Ile Cys Tyr Cys Ala Ser Cys Glu Ala Glu Asp Leu
                165                 170                 175

Asp Ala Leu Gln Ala Ala Glu Tyr Phe Tyr Pro Ser Thr Asp Cys Val
            180                 185                 190

Asp Phe Ala Pro Ser Ala Ala Ala Thr Ser Asp Phe Tyr Lys Arg Glu
        195                 200                 205

Thr Asn Cys Asp Ile Cys Tyr Ser
    210                 215
```

<210> 6022
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6022

```
Ser Lys Arg Arg Asp Lys Lys Arg Gly Gly Val Gly Ser Arg Lys Gln
  1               5                  10                  15

Ser Leu Asn Phe Ser Arg Thr Gln Leu Ser Leu Arg Xaa Asn Phe Leu
             20                  25                  30

Leu Ser Leu Trp Asp Ala Ile Val Ile Phe Asn
         35                  40
```

<210> 6023
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6023
Pro Pro Cys Xaa Leu Arg Cys Val Xaa Glu Thr Gly Ser Asn Thr Thr
1 5 10 15

His Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
20 25 30

Gly Ser Thr His Ala Ser Glu Ile Ser Trp Pro Tyr Phe Leu Ser Gly
35 40 45

Asn Leu Leu Thr Met Met Trp
50 55

<210> 6024
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6024
Asp Ala Ile Lys Val Lys Glu Tyr Asn Asn Leu Leu Asn Ala Leu Gln
1 5 10 15

```
Met Asp Ser Asp Glu Met Lys Lys Ile Leu Ala Glu Asn Ser Arg Lys
            20                  25                  30

Ile Xaa Val Leu Gln Val Asn Glu Lys Ser Xaa Ile Arg Gln Tyr Xaa
        35                  40                  45

Xaa Leu Val Glu Leu Glu Arg Gln Leu Xaa Lys Glu Asn Glu Lys Gln
    50                  55                  60

Lys Asn Glu Leu Leu Ser Met Glu Ala Glu Val Cys Glu Lys Ile Gly
65                  70                  75                  80

Cys Leu Gln
```

<210> 6025
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6025

```
His Val Xaa Asp Val Ile Leu Glu Val Asn Gly Tyr Pro Val Gly Gly
  1               5                  10                  15

Gln Asn Asp Leu Glu Arg Leu Gln Gln Leu Pro Glu Ala Glu Pro Pro
            20                  25                  30

Leu Cys Leu Lys Leu Ala Ala Arg Ser Leu Arg Gly Leu Glu Ala Trp
        35                  40                  45

Xaa Pro Pro Gly Ala Ala Glu Asp Trp Ala Leu Ala Ser Asp Leu Leu
    50                  55                  60
```

<210> 6026
<211> 109
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6026

Gly	Ser	Ser	Ser	Leu	Ala	Gly	Trp	Leu	His	Xaa	Pro	Trp	Ala	Pro	Gln
1				5				10						15	

Ile	Ile	Lys	Ser	Thr	Phe	Ser	Val	Ser	Gly	Ile	Cys	Met	Thr	Ser	Leu
			20					25					30		

Glu	Val	Pro	Cys	Trp	Val	Val	Ile	Leu	Val	Ser	Asp	Gly	Thr	His	Leu
		35					40					45			

Asn	Leu	Lys	Tyr	Phe	Cys	Gln	Gly	Ser	Gly	Gly	Phe	Met	Ala	Cys	Ser
	50					55					60				

Ser	Pro	Ala	Leu	Leu	Gly	Arg	Leu	Gln	Arg	Cys	His	Leu	Ala	Leu	Ser
65					70					75					80

Pro	Lys	Asn	Phe	Glu	Thr	Gln	Pro	Gly	Ala	Xaa	Arg	Gly	Leu	Lys	Xaa
			85					90					95		

Ser	Xaa	Phe	Pro	Phe	Lys	Asn	Tyr	Gln	Lys	Ile	Arg	Pro			
			100					105							

<210> 6027
<211> 146

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (144)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6027

```
Arg Asp Glu Asn Thr Met Lys Asn Ile Phe Ser Lys Lys Arg Lys Leu
  1               5                  10                  15

Glu Val Ala Cys Ser Asp Cys Glu Val Glu Val Leu Pro Leu Gly Leu
             20                  25                  30

Glu Thr His Pro Arg Thr Ala Lys Thr Glu Lys Cys Pro Pro Lys Phe
         35                  40                  45

Ser Asn Asn Pro Lys Glu Leu Thr Met Glu Thr Lys Tyr Asp Asn Ile
     50                  55                  60

Ser Arg Ile Gln Tyr His Ser Val Ile Arg Asp Pro Glu Ser Lys Thr
 65                  70                  75                  80

Ala Ile Phe Gln His Asn Gly Lys Lys Met Glu Phe Val Ser Ser Glu
                 85                  90                  95

Ser Val Thr Xaa Glu Asp Asn Asp Gly Phe Lys Pro Pro Xaa Glu His
            100                 105                 110

Leu Asn Ser Lys Thr Lys Gly Ala Gln Lys Asp Ser Ser Ser Asn His
        115                 120                 125

Val Asp Glu Phe Glu Asp Asn Leu Leu Ile Gly Ile Gln Met Trp Xaa
    130                 135                 140

Arg Tyr
145
```

<210> 6028
<211> 222
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6028

```
Lys Ala Pro Ala Ser Thr Cys Pro Arg Arg Pro Thr Gly Ala Ala Cys
  1               5                  10                  15

Cys Val Asn Trp Arg Ser Pro Lys Gly Pro Gly Arg Pro Pro Gly Ser
             20                  25                  30

Ala Pro Pro Thr Xaa Ala Gln Arg His Pro Leu Cys Ser Arg Asn Gln
         35                  40                  45

Pro Pro Thr Leu Pro Arg Thr Arg Pro Gln Ser Pro Ala Ala Pro Ser
     50                  55                  60

Thr Pro Thr Cys Gln Pro Ala Gly Ser Ser Ala Leu Trp Ser Pro Ser
 65                  70                  75                  80

Ser Thr Cys Leu Pro Ala Pro Ala Trp Val Pro Val Pro Pro Ser Pro
                 85                  90                  95

Arg Thr Trp Thr Met Arg Ala Val Ile Lys Pro Arg Leu Lys Met Lys
            100                 105                 110

Met Arg Met Ser Ser Arg Met Lys Thr Arg Met Arg Thr Arg Met Arg
        115                 120                 125

Met Glu Ser Arg Ala Ser Gln Ser Leu Glu Arg Arg Pro Arg Ser Ala
    130                 135                 140

Thr Pro Trp Thr Trp Ala Thr Val Thr His His Glu Val Pro Thr Ser
145                 150                 155                 160

His Ser Ile Pro Cys Ser Val Arg Val Ala Ala His His Thr Ser Pro
                165                 170                 175

Cys Gln Glu Gln Glu Ser Pro Gln Ala Glu Cys Pro Arg Gly Ala Leu
            180                 185                 190
```

```
Leu Arg Leu Ser Arg Glu Pro Val Lys Glu Ile Glu Ile Lys Pro Val
        195                 200                 205

Leu Leu Gly His Arg Phe Ala Val Leu Lys Lys Lys Xaa Asn
    210                 215                 220
```

<210> 6029
<211> 49
<212> PRT
<213> Homo sapiens

<400> 6029

```
Phe Val Glu Val Gly Met Ile Trp Gln Ser Leu Lys Phe Ile Leu Gly
  1               5                  10                  15

Arg Arg Trp Gln Lys Ser Gly Val Tyr Gln Val Met Arg Phe Leu Leu
             20                  25                  30

Thr His Gln Pro Asn Phe Cys Ser Phe Cys Thr Ser Glu Met Lys Lys
         35                  40                  45

Arg
```

<210> 6030
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6030

```
Asp Thr Glu Ala Asp Val Leu Gly Leu Val Ala Ser Gly Thr Pro Asp
  1               5                  10                  15

Val Ala Arg Ala Met Thr His Thr Leu Leu Arg His Leu Ala Ala Arg
             20                  25                  30

Pro Pro Thr Gln Ala Gln His Gln His Gln Cys Pro Xaa Cys Leu Leu
         35                  40                  45

Pro Leu Pro Gly Val Leu Thr Gly Trp Gly Trp Val Trp Gln Lys Ala
     50                  55                  60
```

Glu Leu Ser Glu Ala Trp Gly Gln Glu
65 70

<210> 6031
<211> 55
<212> PRT
<213> Homo sapiens

<400> 6031
Asn Asn Phe Tyr Ile Leu Tyr Phe Pro Thr Lys Gln Asn Arg Asp Gln
1 5 10 15

Tyr Ser His Leu Leu Ser Asp His Phe Leu Pro Tyr Gln Gly His Asn
20 25 30

Ser Phe Arg Glu Lys Tyr Phe Ser Gly Val Thr Lys Arg Ile Ala Lys
35 40 45

Glu Glu Lys Ser Thr Gln Glu
50 55

<210> 6032
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6032
Val Phe Arg Glu His Arg Xaa Ser Val Ile Cys Leu Glu Leu Val Asn
1 5 10 15

Arg Leu Val Tyr Xaa Gly Ser Xaa Asp Arg Thr Val Lys Cys Trp Leu
20 25 30

Ala Asp Thr Gly Glu Cys Val Xaa Thr Phe Thr Ala His Arg Arg Asn
35 40 45

Val Ser Ala Leu Lys Tyr His Ala Gly Thr Leu Phe Thr Gly Ser Gly
50 55 60

Asp Ala Cys Ala Arg Ala Phe Asp Ala Gln Ser Gly Glu Leu Arg Arg
65 70 75 80

Val Phe Arg Gly His Thr Phe Ile Ile Asn Cys Ile Gln Val His Gly
85 90 95

Gln Val Leu Tyr Thr Ala Ser His Asp Gly Ala Leu Arg Leu Trp Asp
100 105 110

Val Arg Gly Leu Arg Gly Ala Pro Arg Ser Pro Pro Pro Met Arg Ser
115 120 125

Leu Ser Arg Leu Phe Ser Asn Lys Val Gly Cys Ala Val Ala Pro Leu
130 135 140

Gln Pro Ala
145

<210> 6033
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6033
Gly Asn Arg Ala Arg Leu His Leu Lys Lys Arg Lys Lys Asn Cys Asn
1 5 10 15

Ser Tyr Thr Leu Ala Leu Leu Leu Tyr His Cys Val Ile Leu Lys Thr
20 25 30

Thr Xaa Ile Tyr Tyr Thr Gly Thr Cys Leu Leu Ser Ile Ser Thr Thr

```
        35                  40                  45

Lys Met Glu Ala Pro Thr Ala Ile Arg Leu Ile Ser Leu Pro Gly Pro
     50                  55                  60

Ile Leu Ile Met Leu Leu
 65                  70
```

<210> 6034
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6034

```
Glu His Leu Glu Arg Met Leu Gly Gln Ala Gly Glu Arg Arg Ala Asp
  1               5                  10                  15

Val Tyr Val Gly Val Asp Val Phe Ala Arg Gly Asn Val Val Gly Gly
             20                  25                  30

Arg Phe Asp Thr Asp Lys Ser Leu Glu Leu Ile Arg Lys His Gly Phe
         35                  40                  45

Ser Val Ala Leu Phe Ala Pro Gly Trp Val Tyr Glu Cys Leu Glu Lys
     50                  55                  60

Lys Asp Phe Phe Gln Asn Gln Asp Lys Phe Trp Gly Arg Leu Glu Arg
 65                  70                  75                  80

Tyr Leu Pro Thr His Ser Ile Cys Ser Leu Pro Phe Val Thr Ser Phe
                 85                  90                  95

Cys Leu Gly Met Gly Ala Arg Arg Val Cys Tyr Gly Gln Glu Glu Ala
            100                 105                 110

Val Gly Pro Trp Tyr His Leu Ser Ala Gln Glu Ile Gln Pro Leu Phe
        115                 120                 125

Gly Glu His Arg Leu Gly Xaa Asp Gly Arg Gly Trp Val Arg Thr His
    130                 135                 140

Cys Cys Leu Glu Asp Ala Trp His Gly Gly Ser Ser Leu Leu Val Arg
145                 150                 155                 160
```

Gly Val

<210> 6035
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6035
Lys Tyr Tyr Thr Cys Glu Thr Asp Xaa Glu Asn Gln Cys Gly Xaa Gly
1 5 10 15

Val Val His Ile Asn Tyr Leu Xaa Ser Thr Xaa His Lys Ser Gln Ala
20 25 30

Cys Lys Ile Ser Gly Leu Ala Pro Glu Arg Gln Ile Pro His Asp Leu
35 40 45

Thr Asp Met Xaa Xaa Leu Lys Lys Ser Asn Ser Glu Gln Arg Val Glu

50 55 60

<210> 6036
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6036
Gly Val Leu His Phe Cys Gly Lys Ser Pro Phe Trp Arg Ser Ser Thr
1 5 10 15

Gly Arg Phe Leu Gly Cys Tyr Asn Gln Asp Phe Ser Thr Thr Thr Leu
20 25 30

Leu Val Phe Gly Ala Arg Val Ile Leu Cys Xaa Trp Gly Gly Gln Phe
35 40 45

Ile Val Gly Cys Phe Thr Ala Ser Ile Pro Leu Ser Tyr Ser Leu Gln
50 55 60

Gly Lys Thr Thr Lys Asn Val Pro Arg His Xaa Gln Ile Ser Pro Gly
65 70 75 80

Gly Gln Ser Phe Ile
85

<210> 6037
<211> 214
<212> PRT
<213> Homo sapiens

<400> 6037
Leu Ser Leu Arg Asn Ala Lys Tyr Ser Phe Pro Gln Glu Leu Ile Ser
1 5 10 15

```
Leu Phe Ser Met Thr Asp Leu Asn Asp Asn Ile Cys Lys Arg Tyr Ile
            20                  25                  30

Lys Met Ile Thr Asn Ile Val Ile Leu Ser Leu Ile Ile Cys Ile Ser
        35                  40                  45

Leu Ala Phe Trp Ile Ile Ser Met Thr Ala Ser Thr Tyr Tyr Gly Asn
    50                  55                  60

Leu Arg Pro Ile Ser Pro Trp Arg Trp Leu Phe Ser Val Val Val Pro
65                  70                  75                  80

Val Leu Ile Val Ser Asn Gly Leu Lys Lys Lys Ser Leu Asp His Ser
                85                  90                  95

Gly Ala Leu Gly Gly Leu Val Val Gly Phe Ile Leu Thr Ile Ala Asn
            100                 105                 110

Phe Ser Phe Phe Thr Ser Leu Leu Met Phe Phe Leu Ser Ser Ser Lys
        115                 120                 125

Leu Thr Lys Trp Lys Gly Glu Val Lys Lys Arg Leu Asp Ser Glu Tyr
    130                 135                 140

Lys Glu Gly Gly Gln Arg Asn Trp Val Gln Val Phe Cys Asn Gly Ala
145                 150                 155                 160

Val Pro Thr Glu Leu Ala Leu Leu Tyr Met Ile Glu Asn Gly Pro Gly
                165                 170                 175

Glu Ile Gln Ser Ile Phe Pro Ser Ser Thr Pro Leu Pro Gly Cys Val
            180                 185                 190

Cys Leu Ser Trp Leu His Trp Pro Ala Leu Leu Glu Thr His Gly Leu
        195                 200                 205

Gln Lys Leu Ala Gln Phe
    210
```

<210> 6038
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6038

```
Phe Phe Tyr Asn Thr Lys Val Thr Thr Trp Asn Phe Lys Asp Asn Val
  1               5                  10                  15
```

Met Cys Val Cys Glu Ile Tyr Ile His Ile Tyr Ile Tyr Phe Leu Lys
20 25 30

Glu Glu Lys Ile Pro Phe Cys Ser Thr Cys Ile Asn Ser Ser Phe Leu
35 40 45

Ile Ala Val Lys Trp Gln Leu Leu Ile Asn Tyr Cys Asp Cys Phe Lys
50 55 60

Ile
65

<210> 6039
<211> 55
<212> PRT
<213> Homo sapiens

<400> 6039
Lys Ala Gly Phe Arg Gln Ser Val His Phe Tyr Ser Lys Ile Gly Val
1 5 10 15

Ser Val Tyr Ile Tyr Leu Lys Leu Asn Arg Ser Asp Phe Tyr Phe Leu
20 25 30

Gly Tyr Ser Arg Ser Ile Leu Lys Leu Leu Phe Lys Ile Leu Lys Pro
35 40 45

His Phe Lys Ser Cys Arg Pro
50 55

<210> 6040
<211> 54
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (35)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6040
Gln Leu Gln Ile Asn Arg Tyr Thr Pro Tyr Thr Ile Thr Asn Thr Phe

```
 1               5                  10                  15

Tyr Thr Val His Ile Ser Val His Gln His Tyr Phe Ile Tyr Thr Leu
            20                  25                  30

Phe Xaa Xaa Ile Asn Ile Phe Leu Asn Trp Asp Tyr Cys Pro Tyr Ala
        35                  40                  45

Leu Tyr Phe Leu Phe Gln
    50
```

<210> 6041
<211> 77
<212> PRT
<213> Homo sapiens

<400> 6041

```
Leu Leu Thr Thr Trp Val Lys Gly Lys Arg Gln Met Ala Ser Lys Pro
 1               5                  10                  15

Leu Val Cys Leu Ser Ser Ser Gly Ser Glu Glu Ile Thr Ser Ala Phe
            20                  25                  30

Leu Pro Glu Glu Phe Gly Val Phe Lys Gly Gly Trp Gly Gly Cys His
        35                  40                  45

Phe Glu Asn Met Leu Leu Phe Leu Leu Ile Val Leu Arg Leu Ile Trp
    50                  55                  60

Lys Gly Tyr Phe Phe Leu Ala Asn Thr Phe Trp Tyr Phe
65                  70                  75
```

<210> 6042
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (133)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (202)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6042
His Ile Glu Met Ala Leu Pro Lys Asp Ala Ile Pro Ser Leu Ser Glu
1 5 10 15

Cys Gln Cys Gly Ile Cys Met Glu Ile Leu Val Glu Pro Val Thr Leu
20 25 30

Pro Cys Asn His Thr Leu Cys Lys Pro Cys Phe Gln Ser Thr Val Glu
35 40 45

Lys Ala Ser Leu Cys Cys Pro Phe Cys Arg Arg Arg Val Ser Ser Trp
50 55 60

Thr Arg Tyr His Thr Arg Arg Asn Ser Leu Val Asn Val Glu Leu Trp
65 70 75 80

Thr Ile Ile Gln Lys His Tyr Pro Arg Glu Cys Lys Leu Arg Ala Ser
85 90 95

Gly Gln Glu Ser Glu Glu Val Ala Asp Asp Tyr Gln Pro Val Arg Leu
100 105 110

Leu Ser Lys Pro Gly Glu Leu Arg Arg Glu Tyr Glu Glu Glu Ile Ser
115 120 125

Lys Val Ala Ala Xaa Arg Arg Ala Ser Glu Glu Glu Glu Asn Lys Ala
130 135 140

Ser Glu Glu Tyr Ile Gln Arg Leu Leu Ala Glu Glu Glu Glu Glu Glu
145 150 155 160

Lys Arg Gln Ala Glu Lys Arg Arg Arg Ala Met Glu Glu Gln Leu Lys
165 170 175

Ser Asp Glu Glu Leu Ala Arg Lys Leu Ser Ile Asp Ile Asn Asn Phe
180 185 190

Cys Glu Gly Ser Ile Ser Ala Ser Pro Xaa Glu Phe Gln Lys Asn Xaa
195 200 205

Val Pro Val Thr Pro Lys Ser Xaa Lys Arg

210 215

<210> 6043
<211> 106
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6043
Trp Pro Gly Xaa Trp Thr Leu Ala Thr Glu Leu Leu His Arg Ala Trp
1 5 10 15

Cys Pro Gln Ala Ser Arg Leu Gly Leu Glu Pro Gly Met Ser Pro Gly
20 25 30

Ser Ala Leu Ala Leu Leu Trp Ser Leu Pro Ala Ser Asp Leu Gly Arg
35 40 45

Ser Val Ile Ala Gly Leu Trp Pro His Thr Gly Val Leu Ile His Leu
50 55 60

Glu Thr Ser Gln Ser Phe Leu Gln Gly Gln Leu Thr Lys Ser Ile Phe
65 70 75 80

Pro Leu Cys Cys Thr Ser Leu Phe Cys Val Cys Val Val Thr Val Gly
85 90 95

Gly Gly Arg Val Gly Ser Thr Phe Val Ala
100 105

<210> 6044
<211> 67
<212> PRT
<213> Homo sapiens

<400> 6044
Ile Pro Ala Pro Leu Tyr His Leu Phe Leu Pro Leu Lys Gly Lys Thr
1 5 10 15

Phe His Pro Ser Lys Leu Thr Ala Phe Ser Val Gly Phe Ser Tyr Ala
20 25 30

Leu His Thr Leu Asp Leu Thr Cys Arg Tyr Ser Ser Pro Leu Ala Arg

35 40 45

Ser Ile Cys Met Trp Tyr Phe Ser Phe Pro Ser Val Asp Ile Ser Tyr
50 55 60

Met Ile Phe
65

<210> 6045
<211> 78
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6045
His Val Val Tyr Pro Arg Lys Leu Gly Arg Pro Leu Pro Ser Gln Ala
1 5 10 15

Leu Arg Asn Asn Phe Ser Cys Leu Pro Met Leu Ile Ile Leu Val Phe
20 25 30

Asn Ser Leu Ser Asp Leu Gln Asn Val Phe Ile Asn Ser Ser Cys Thr
35 40 45

Trp Leu Asp Lys Leu Ser Cys Leu Cys Trp Xaa Xaa Asn Asp Tyr Leu
50 55 60

Leu Ile Tyr Phe Gly Xaa Asn Ile Xaa Lys Asn Ile Asn Lys
65 70 75

<210> 6046
<211> 162
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6046
Pro Tyr Arg Glu Ser Trp Tyr Ala Cys Arg Tyr Arg Ser Gly Ile Pro
1 5 10 15

Gly Ser Thr His Ala Ser Gly Arg Leu Ala Gly Arg Gly Ala Glu Ser
20 25 30

Gly Leu Pro Arg Arg Gly Thr Ser Tyr Ser Val Gly Glu Ala Met Glu
35 40 45

Glu Leu Leu Pro Asp Gly Gln Ile Trp Ala Asn Met Asp Pro Glu Glu
50 55 60

Arg Met Leu Ala Ala Ala Thr Ala Phe Thr His Ile Cys Ala Gly Gln
65 70 75 80

Gly Glu Gly Asp Val Arg Arg Glu Ala Gln Ser Ile Gln Tyr Asp Pro
85 90 95

Tyr Ser Lys Ala Ser Xaa Ala Pro Gly Lys Arg Pro Ala Leu Pro Val
100 105 110

Gln Leu Gln Tyr Pro His Val Glu Ser Asn Val Pro Ser Glu Thr Val
115 120 125

Ser Glu Ala Ser Gln Arg Leu Arg Lys Pro Val Met Lys Arg Lys Val
130 135 140

Leu Arg Arg Lys Pro Asp Gly Glu Val Leu Val Thr Asp Glu Ser Ile
145 150 155 160

Ile Lys

<210> 6047
<211> 48
<212> PRT

<213> Homo sapiens

<400> 6047
Val Leu Cys Val Cys Val Cys Val Cys Val Cys Ala His Met Cys Thr
1 5 10 15

Leu Val Leu Val Pro Asn Ser Cys Ser Pro Gly Asp Pro Leu Val Leu
20 25 30

Glu Arg Pro Pro Pro Arg Trp Ser Thr Ser Phe Val Pro Leu Val Arg
35 40 45

<210> 6048
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6048
Asn Val Lys Lys His Ile Tyr Leu Tyr Ile Asp Phe Lys Gln Asn Thr
1 5 10 15

Leu Asn Thr Leu Leu Ser Val Arg Leu Met Xaa Ala Glu Glu Phe Tyr
20 25 30

Trp Val Glu Lys Thr Val Ile Tyr Ile Val Leu Asn Val Phe Ile Ile
35 40 45

Asn Gly Cys Ser Ile Ile Ser Ile Leu Phe Ser Ala Ser Asn Gly Met
50 55 60

Ile Ile Arg His Phe Ser Leu Leu Ile Ser
65 70

<210> 6049
<211> 45
<212> PRT
<213> Homo sapiens

<400> 6049

```
Phe Ile Lys Trp Val Ile Ile His Thr Asn Ala Lys Leu Ser Ile Tyr
 1               5                  10                  15

Tyr Ile Lys Ile Phe Asn Val Leu Ala Asn Phe Gly Lys Ala Lys Thr
            20                  25                  30

Thr Ser Val Asn Lys Asp Gly Phe Leu Val Ile Cys His
        35                  40                  45
```

<210> 6050
<211> 62
<212> PRT
<213> Homo sapiens

<400> 6050

```
Gly Glu Thr Ser Gly Leu Leu Cys Ser Gly Lys Thr Arg Asp Ala His
 1               5                  10                  15

Tyr Cys Glu Gly Pro Leu Lys Ser Gly Leu Leu Asn Gly Phe Leu Leu
            20                  25                  30

Ile Ser Trp Val His Ala Arg Met Met Gly Leu Asp Ala Val Gly Lys
        35                  40                  45

Arg Arg Cys Lys Asn Asn Lys Gln Tyr Ile Pro Ser Lys Lys
    50                  55                  60
```

<210> 6051
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6051

```
Gln Xaa Cys Lys Asn Ile Gln Lys Ser Arg Thr Ile Gly Leu Ser Phe
 1               5                  10                  15

Gln Ser Lys Ser Lys Xaa Ser Cys Phe His Phe Thr Arg Leu Trp Lys
```

20 25 30

Pro Met Asp Val Ile Val Lys Cys Ile Cys Ile Thr Leu Thr Phe Leu
35 40 45

Lys Cys Phe Glu Leu Ile Lys Asn Ser Thr Met
50 55

<210> 6052
<211> 51
<212> PRT
<213> Homo sapiens

<400> 6052
Asp Thr Phe Asn Pro Val Asn Phe Phe Ser Val Ser Asp Lys Val Lys
1 5 10 15

Phe Ser Ser Arg Val Gln Asn Thr Phe Ile Tyr Phe Phe Val Phe Leu
20 25 30

Lys Val Gln Arg Thr Thr Leu Ile Asn Leu Ser Phe Pro Ala Thr Trp
35 40 45

Asn Ser Thr
50

<210> 6053
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6053
Lys Leu Leu Ser Pro Leu Asn Gly Leu Gly Pro Leu Val Xaa Ser His
1 5 10 15

Cys Ser Ile Arg Val Ser Leu His Leu Trp Ala Leu Leu Ser Cys Asp
20 25 30

Ser Arg Asn Val Leu Leu Ile His Phe Met Val Asp His Pro Leu Ala
35 40 45

Leu Ser Thr Leu Pro Leu Phe Ser Ser Ala Pro His Arg Ile Ile Ser

50 55 60

Ile Val Ser Val Ser Ser Leu Leu Ile Leu Tyr Ser Ala Cys Ser Asp
65 70 75 80

Leu Pro Val Asn Pro Leu Val Asn Leu
85

<210> 6054
<211> 92
<212> PRT
<213> Homo sapiens

<400> 6054
Ile Ser Gly Asp Lys His Leu Lys Lys Val Gln Leu Thr Leu Glu Gln
1 5 10 15

His Glu Ser Glu Leu Cys Val Gly Leu Leu Thr Gly Arg Phe Phe Phe
20 25 30

Ser Ile Ser Ile Leu Glu Asn Phe Leu Glu Ile Phe Gly Asn Leu Lys
35 40 45

Lys Leu Ala Asn Tyr Ser Leu Glu Ile Ser Glu Val Lys Lys Lys Leu
50 55 60

Val Cys His Arg Cys Ile Lys Leu Thr Met Ser Ile Leu Val His Phe
65 70 75 80

Ile Ile Tyr Tyr His Lys Ile Tyr Thr Ser Phe Phe
85 90

<210> 6055
<211> 48
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6055
Thr Glu Lys Glu Met Lys Ile Asp Gln Xaa Glu Lys Gly Leu Val Xaa
1 5 10 15

Lys Gly Xaa Lys Gly Arg Ser Leu Trp Asn Xaa Xaa Xaa Leu Lys Asn
20 25 30

Glu Val Thr Pro Asn Asn Arg Thr Gly Gln Ser Glu Met Thr Trp Leu
35 40 45

<210> 6056
<211> 55
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6056
Lys Ser Ser Ile Xaa Pro Pro Leu Ile Phe Pro Ala Thr Asp Ile Asp
1 5 10 15

Arg Ile Leu Arg Ala Gly Phe Thr Leu Gln Glu Ala Leu Gly Ala Leu
20 25 30

His Arg Val Gly Gly Asn Ala Asp Leu Ala Leu Leu Val Leu Leu Ala
35 40 45

Lys Asn Ile Val Val Pro Thr
50 55

<210> 6057
<211> 56
<212> PRT
<213> Homo sapiens

<400> 6057
Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn His Leu Asn Pro Gly
1 5 10 15

Gly Arg Gly Cys Ser Glu Pro Arg Ser His His Cys Thr Pro Ala Trp
20 25 30

Ala Thr Arg Ala Lys Leu His Leu Lys Lys Thr His Ile Phe Met Asn
35 40 45

Ile Ser His Gln Gln Cys Arg Lys
50 55

<210> 6058
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6058
Glu Glu Thr Trp Leu Leu Ala Leu Ile Asn Glu Glu Ser His Phe Pro
1 5 10 15

Gln Ala Thr Asp Ser Thr Leu Leu Glu Lys Leu His Ser Gln His Ala
20 25 30

Asn Asn His Phe Tyr Val Lys Pro Arg Val Ala Val Asn Asn Phe Gly
35 40 45

Val Lys His Tyr Ala Gly Glu Val Gln Tyr Asp Val Arg Gly Ile Leu
50 55 60

Glu Lys Asn Arg Asp Thr Phe Arg Asp Asp Leu Leu Asn Leu Leu Arg
65 70 75 80

Glu Ser Arg Phe Asp Phe Ile Tyr Asp Leu Phe Glu His Val Ser Lys
85 90 95

Pro Xaa Gln Pro Gly Tyr Leu Glu Met Trp Glu Pro Thr Ser Ala Ala
100 105 110

Tyr

<210> 6059
<211> 44
<212> PRT
<213> Homo sapiens

<400> 6059
Ala Phe Ile Tyr Leu Asn Phe Glu Phe Leu Asn Phe Leu Val Lys Asn
1 5 10 15

Gln Asp Lys His Thr Ser Leu Gly Leu Cys Arg Val Arg Ile Lys Thr
20 25 30

Ser Leu Ala Gly Asp Arg Asn Phe Ser Thr Pro Leu
35 40

<210> 6060
<211> 59
<212> PRT
<213> Homo sapiens

<400> 6060
Ala Asp Tyr Pro Thr Val Gly Thr Lys Leu Asp Ser Tyr Phe Val Gly
1 5 10 15

Leu Ser Phe Leu Ile Leu Thr Ile Tyr His Pro Ile Leu Cys Pro Val
20 25 30

Ile Phe Phe Lys Ser Leu Phe Asn Val Leu Gln His Cys Asp Cys Met
35 40 45

Leu Ala Thr Leu Leu Leu Glu Cys Ser Phe Ser
50 55

<210> 6061
<211> 51
<212> PRT
<213> Homo sapiens

<400> 6061
Trp Val Asn Leu Arg Phe Gln Ser Gln Lys Leu Gln Val Val Val Thr
1 5 10 15

Phe Leu Ser Ala Trp Ile Lys Pro Leu Lys Cys Gly Lys Cys Cys Gln
20 25 30

Ser Arg Ala Ile Ser Leu Leu Ser Ser Met Arg Gly Ile Glu Thr Lys
35 40 45

Gln Gln Phe
50

<210> 6062
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6062
Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val
1 5 10 15

Xaa Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala
20 25 30

Arg Gly Gly Val Ser Ser Leu Lys Leu Arg Thr Ile Phe Xaa Val Ala
35 40 45

Lys Leu His Xaa Met Met Leu Pro Leu Leu Ser Val Leu Ser Gly Pro
50 55 60

Leu Phe Thr Ser Thr Arg Tyr Pro Ser
65 70

<210> 6063
<211> 59
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6063
Arg Gly Asn Arg Cys Leu Thr Lys Arg Glu Ala Ile Arg Gly Ile Asp
1 5 10 15

Glu Ala Gln Leu Lys Ser Ser Leu Ala Ser Ser Ser Leu Ala Ser Val
20 25 30

His Leu Lys Asn Lys Ser Trp Leu Thr Val Gly Ser Thr Arg Phe Glu
35 40 45

Ile Arg Trp Leu Tyr Phe Xaa Phe Phe Gly Ile
50 55

<210> 6064
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6064
Thr Xaa Met Phe Gln Gln His Arg Phe Ile Cys Asn His Lys Ser Asp
1 5 10 15

Thr Phe Arg Met Thr Lys Pro Gln Lys Asn Ala Ile Phe Lys Ala Glu
20 25 30

Thr Val Leu Phe Trp Ala Lys Trp Asn Pro Cys Phe Ser Asp Thr Val

35 40 45

Arg Val Glu Ile Lys Asp Thr Glu Asn Leu Pro Leu Gly Asn His Asn
50 55 60

Tyr Leu
65

<210> 6065
<211> 46
<212> PRT
<213> Homo sapiens

<400> 6065
Lys Arg Gln Leu Glu Asn Val Met His Gly Val Phe Lys Lys Thr Lys
1 5 10 15

Cys Ser Phe Tyr Leu Thr Asp Asn Ser Phe Tyr Thr Leu Tyr Asn Lys
20 25 30

Ile Ser Thr Arg His Leu Val Gly Lys Val Lys Lys Lys Lys
35 40 45

<210> 6066
<211> 136
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6066
Arg Gly Leu Pro Ser Ile Pro Glu Asn Xaa Asn Leu Xaa Glu Tyr Phe
1 5 10 15

```
Val Ala Val Asp Val Asn Asn Met Leu His Leu Tyr Ala Ser Met Leu
            20                  25                  30

Tyr Glu Arg Arg Ile Leu Ile Ile Cys Ser Lys Leu Ser Thr Leu Thr
        35                  40                  45

Ala Cys Ile His Gly Ser Ala Ala Met Leu Tyr Pro Met Tyr Trp Gln
    50                  55                  60

His Val Tyr Ile Pro Val Leu Pro Pro His Leu Xaa Asp Tyr Cys Cys
65                  70                  75                  80

Ala Pro Met Pro Tyr Leu Ile Gly Ile His Leu Ser Leu Met Glu Lys
                85                  90                  95

Val Arg Asn Met Ala Leu Asp Asp Val Val Ile Leu Asn Val Asp Thr
            100                 105                 110

Asn Thr Leu Glu Thr Pro Phe Asp Asp Leu Gln Ser Leu Pro Asn Asp
        115                 120                 125

Val Glu Glu Ser Ile Val Ile Gln
    130                 135
```

<210> 6067
<211> 74
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6067

```
His Phe Ala Ala Tyr Gly Asn Val Cys Val Leu Phe Ile Leu Met Asn
  1               5                  10                  15

Cys Ala Met Thr His Lys Pro Lys Gln Cys Gln Leu Gln Leu Asn Leu
            20                  25                  30

Gly Arg Asn Pro Trp Cys Phe Xaa Phe Phe Phe Asp Ala Gly Glu Arg
        35                  40                  45

Leu His Phe Val Thr Asn Leu Leu Pro Asn Arg Lys Ile Tyr Phe Leu
    50                  55                  60

Ser Asp Arg His His Thr Arg Cys Leu Leu
65                  70
```

<210> 6068
<211> 86
<212> PRT
<213> Homo sapiens

<400> 6068
Gly Lys Pro Gly Ala Pro Leu Gln Pro Trp Asp Asn Leu Arg Ile Pro
1 5 10 15

Pro Glu Ala Ser Ser Val Met Asp Ala Val Leu Arg Ile Thr Cys Cys
20 25 30

Pro Gly Val Thr Cys Phe His Leu Pro Ala His Gln Pro Ser Ala His
35 40 45

Leu Thr Cys Leu Pro Met Asp Trp Gly Leu Pro Gly Pro Pro Pro Tyr
50 55 60

Val Asn Leu His Phe Leu Phe Lys Asn Gln Glu Lys Lys Arg Phe Glu
65 70 75 80

Asp Pro Lys Ser Cys Gln
85

<210> 6069
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6069
Leu Glu Gly Arg Ala Leu Leu Gln Val Arg Val Gly Val Leu Ser Glu

```
  1               5                  10                  15

Ser Cys Val Leu Gly Leu Val Ser Phe Pro Cys Pro Cys Ser Gly Ser
             20                  25                  30

Val Arg Gln Ile Gly Arg Leu Cys Ser Arg Pro Gln Glu Cys Xaa Ser
         35                  40                  45

Pro Xaa Leu Ala Gln Tyr Ile Gly Thr Cys Gly Phe Tyr Phe Val Phe
     50                  55                  60

Asp Val Pro Asp Arg Asn Arg Ala Arg Gly Thr Xaa Lys Thr Thr Val
 65                  70                  75                  80

Gly Ser
```

<210> 6070
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6070

```
Ser Lys Glu Arg Val Asp Gly Leu Lys Arg Leu Ala Ser Val Ser Val
  1               5                  10                  15

Ala Gly Ser His Leu Ala Ser Asn Trp Lys Gln Asn Phe Trp Gly Val
             20                  25                  30

Leu Phe Cys Ile Arg Val Cys Phe Met Leu Ser Lys Thr Tyr Phe Arg
         35                  40                  45

Ser Lys
     50
```

<210> 6071
<211> 51
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6071

```
Trp Lys Leu Val Gly Pro Pro Gly Leu Thr Gly Ile Arg Thr Xaa Gly
```

```
  1               5                  10                  15

Lys Asn Phe Val Arg Pro Gln Lys His Cys Thr Val Asn Ile Leu Glu
             20                  25                  30

Lys Val Cys Gln Thr Gly Ile Asn Asp Ser Met Ile Phe Asn Asp Cys
         35                  40                  45

Lys Leu Arg
     50
```

<210> 6072
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6072

```
Lys Ser Met Gly Glu Glu Asn Val Lys Met Leu Ser Asp Ile Arg Cys
  1               5                  10                  15

Met Lys Ser His Asn Ile Lys Ala Ile Ser Tyr Phe Xaa Arg Gly Ile
             20                  25                  30

Phe Leu Leu Pro Leu Leu Val Leu Asp Arg Phe Tyr Lys Met Xaa Asn
         35                  40                  45

Lys Ile Trp Xaa
     50
```

<210> 6073
<211> 102
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6073

```
Glu Ser Ser Ile Cys Cys Ser Phe Leu Gln Leu Tyr Phe Cys Ser Ile
  1               5                  10                  15

Ser Trp Phe His Ser Leu Leu Phe Trp Asp Phe Val Phe Arg Ser Ala
             20                  25                  30

Tyr Phe Leu Tyr Ile Cys Met Gln Met Lys Glu Gly Ser Leu Tyr Trp
         35                  40                  45

Cys Xaa Phe Ser Leu Gln Leu Leu Val Xaa Gly Asp Leu Leu Glu Lys
     50                  55                  60

Ile Leu Pro Leu Lys Gly Glu Asn Arg Pro Leu Cys Val Tyr Leu Tyr
 65                  70                  75                  80

Arg Asp Val Tyr Met Gly Cys Gly Gly Thr Leu Leu Asn Val Asn Leu
                 85                  90                  95

Pro Cys Gln Trp Lys Asp
            100
```

<210> 6074
<211> 37
<212> PRT
<213> Homo sapiens

<400> 6074

```
Leu Phe Gly Ala Val Arg Lys Lys Lys Lys Lys Lys Ile Ala Ile Ser
  1               5                  10                  15

Ser Cys Val His Asn Ser Arg Tyr Asn Ile Gln Ser Leu Glu Gly Pro
             20                  25                  30

Phe Trp Ala Leu Asp
         35
```

<210> 6075
<211> 37
<212> PRT
<213> Homo sapiens

<400> 6075
Tyr Ser Phe Asp Asn Thr Arg Val Ser Glu Ile Pro Asp Thr Ser Val
1 5 10 15

Gln Asn Ala Met Asp Leu Leu Phe Tyr Ser Cys Gln Pro Phe Ser Ile
20 25 30

Pro Ile Gln Lys Arg
35

<210> 6076
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6076
Thr Leu Ser Asp Val Gly Cys Pro His Gln Asn Ile Cys Thr Ser Cys
1 5 10 15

Phe Cys Pro Thr Leu Glu Ala Ala Glu Lys Lys Gly Lys Gln Gly Ser
20 25 30

Arg Asn Leu Cys Tyr Val Phe Ser Pro Leu Tyr Leu Phe Leu Trp Xaa
35 40 45

Val Val Gln Glu Ile Leu Phe Ser Cys Ser Lys Leu Ile Lys Arg Ser
50 55 60

Asn Ile Arg Asn Tyr Asp Asn Ser Leu
65 70

<210> 6077
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6077
Tyr Arg Gly Arg Glu Ile Ser Lys Val Phe Thr Ser Ser Leu Lys Gly
1 5 10 15

Val Gly Ser Asn Ser Ser Ser Pro Cys Tyr Phe Gly Val Ser His Tyr
20 25 30

Ser Leu Thr His Gln Lys Ile His Ser Phe Lys Cys Leu Xaa Val Leu
35 40 45

Ser

<210> 6078
<211> 38
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6078
Pro Asn Ala Asp Gln Lys Tyr Ser Thr Asp Lys Met Xaa Glu Pro Xaa
1 5 10 15

Val Tyr Val Lys Ser Leu Tyr Thr Xaa Xaa Gly Pro Asp Xaa Tyr Phe
20 25 30

Leu Leu Leu Ile Gly Gly
35

<210> 6079
<211> 303
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (118)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (147)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6079
Ala Phe Ser Ser Ser Glu Asp Asn Lys Xaa Gly Lys Arg Xaa Arg Thr
1 5 10 15

Asn Ser Arg Ser Thr Pro Thr Thr Pro Gln Gly Lys Pro Glu Thr Thr
20 25 30

Phe Leu Asp Gln Gly Cys Ser Ser Pro Val Leu Ile Asp Cys Pro His
35 40 45

Pro Asn Cys Asn Lys Lys Tyr Lys His Ile Asn Gly Leu Arg Tyr His
50 55 60

Gln Ala His Ala His Leu Asp Pro Glu Asn Lys Leu Glu Phe Glu Pro

65 70 75 80

Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu Glu Gly Leu Ser Asn Val
85 90 95

Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser Val Ser Ala Tyr Asp Gln
100 105 110

Leu Lys Ala Pro Ala Xaa Pro Gly Ala Gly Asn Pro Pro Gly Thr Pro
115 120 125

Lys Gly Lys Arg Glu Leu Met Ser Asn Gly Pro Gly Ser Ile Ile Gly
130 135 140

Ala Lys Xaa Gly Lys Asn Ser Gly Lys Lys Lys Gly Leu Asn Asn Glu
145 150 155 160

Leu Asn Asn Leu Pro Val Ile Ser Asn Met Thr Ala Ala Leu Asp Ser
165 170 175

Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala Glu Met Pro Lys Leu Glu
180 185 190

Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu Gly Asp Lys Glu Lys Gly
195 200 205

Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys Asn Leu Ser Lys Leu Lys
210 215 220

Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala Pro Thr Pro Pro Gln Leu
225 230 235 240

Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr Thr Thr Thr Gly Thr Ile
245 250 255

Pro Gly Leu Pro Ser Leu Thr Thr Thr Val Val Gln Ala Thr Pro Lys
260 265 270

Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys Pro Thr Ile Met Gly Glu
275 280 285

Pro Ile Thr Val Asn Pro Ala Leu Val Ser Leu Lys Asp Lys Lys
290 295 300

<210> 6080
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6080
Arg Leu Ser Gln His Pro Tyr His Thr Val Gln Lys Ser Glu Leu Gln
1 5 10 15

Arg Leu Cys Ser Val Ser Trp Ser Thr Ser Lys Phe Val Val Arg Lys
20 25 30

Val Arg Cys Arg Asn Leu Arg Leu Gln Arg Leu Cys Ser Val Ser Trp
35 40 45

Xaa Thr Ser Thr Phe Phe Val Val Asn Ile Gln Ser His
50 55 60

<210> 6081
<211> 77
<212> PRT
<213> Homo sapiens

<400> 6081
Pro Asn Pro Ala Leu Thr Ala Pro Gln Arg Ile Pro Val Ala Ala Gln
1 5 10 15

Pro Pro Ala Pro Pro Ser Pro Glu Leu Arg Arg Glu Pro Gln Gly Gly
20 25 30

Ala Met Arg Thr Gly Val Trp Trp Ser Thr Tyr Gly Ser Trp Pro Ala
35 40 45

Ser Gly Ala Val Ala Gly Arg Pro Leu Ala Phe Ser Asp Ala Gly Pro
50 55 60

His Val His Tyr Gly Trp Gly Asp Pro Ile Arg Leu Arg
65 70 75

<210> 6082
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6082
Thr Ala Gly Pro Ser His Pro Trp Ile Ser Ser Cys Thr Thr Leu Lys
1 5 10 15

Leu Glu Gln His Gln Xaa Leu Pro Arg Ser Pro Pro Ala Gln Pro Ser
20 25 30

Xaa Gly Asn Val Ser Ser Ser Pro Gly Leu Gln Leu
35 40

<210> 6083
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6083
Ala Glu Gly His Glu Arg Glu Arg Ser Xaa Glu Ser Gly Glu Glu Asp
1 5 10 15

Ser Ser Leu Thr Asp Glu Pro Arg Arg Ala Cys Leu Ser His Pro Ser
20 25 30

Leu Cys Gln Leu Leu Gly Gly Gln Xaa Pro Ala Leu Arg Asn Ser Pro
35 40 45

Val Leu Gly Glu
50

<210> 6084
<211> 78

<212> PRT
<213> Homo sapiens

<400> 6084
Leu Val Leu His Tyr Phe Pro Arg Glu Phe Leu Gln Val Asn Val His
1 5 10 15

Pro Phe Asp Leu Glu Ala Asp Ser Gln Phe Cys Leu Phe Gly Lys Ser
20 25 30

Ala Ser Glu Leu Asn Phe Leu Val Cys Lys Met Gly Leu Arg Lys Cys
35 40 45

Gly Leu Leu Phe Gln Arg Leu Leu Leu Gly Trp Asn Glu Ile Met Cys
50 55 60

Val Thr Lys Ala Leu Glu Thr Phe Trp Asn Leu Lys Ala Ile
65 70 75

<210> 6085
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6085
Ala Leu Ser Val Cys Asp Leu Leu Lys Asn Lys Phe Phe Val Lys Glu
1 5 10 15

Asn Thr Ser Leu Lys Asn Glu Lys Ala Ile Leu Ser Leu Ile Asn Leu
20 25 30

Ile Gln Asp Pro Ser Ile Ile Asn Leu Thr Val Leu Xaa Phe Thr Glu
35 40 45

Ile Ser Xaa Asn Gln Ser Gln Lys Ile Pro Pro Cys Thr Asn Leu Leu
50 55 60

Pro Leu His
65

<210> 6086
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6086
Leu Arg Ile Met Thr Pro Leu Val Ser Cys Gly Met Gly Arg Ile Phe
1 5 10 15

Tyr Phe Phe Cys Thr Phe Thr Trp Arg Leu Phe Leu Leu Arg Xaa Phe
20 25 30

Ile Met Gly Phe Lys Ala Leu His Leu Pro Asn Xaa Gly Lys Cys Xaa
35 40 45

Lys Tyr Cys Ile Phe Tyr Xaa Phe Gly Pro Lys Gly Tyr
50 55 60

<210> 6087
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6087
Asn Glu Glu Cys Asn Pro Phe Tyr Lys Met Tyr Thr Leu Cys Tyr Leu
1 5 10 15

```
Leu Leu Asn Phe Gly Leu Val Ile Pro Thr Asp Ala Lys Phe Phe Leu
            20                  25                  30

Gln Ser Thr Glu Ile Ile Gln Ile Phe Leu His Cys Gln Gln Asp Glu
        35                  40                  45

Ile Val
    50
```

<210> 6088
<211> 141
<212> PRT
<213> Homo sapiens

<400> 6088

```
Trp Lys Lys Tyr Phe Lys Thr Phe Ile Asn Gly Lys Val Val Trp Gly
  1               5                  10                  15

Ser Trp Phe Asp His Val Lys Gly Trp Trp Glu Met Lys Asp Arg His
            20                  25                  30

Gln Ile Leu Phe Leu Phe Tyr Glu Asp Ile Lys Arg Asp Pro Lys His
        35                  40                  45

Glu Ile Arg Lys Val Met Gln Phe Met Gly Lys Lys Val Asp Glu Thr
    50                  55                  60

Val Leu Asp Lys Ile Val Gln Glu Thr Ser Phe Glu Lys Met Lys Glu
65                  70                  75                  80

Asn Pro Met Thr Asn Arg Ser Thr Val Ser Lys Ser Ile Leu Asp Gln
                85                  90                  95

Ser Ile Ser Ser Phe Met Arg Lys Gly Thr Val Gly Asp Trp Lys Asn
            100                 105                 110

His Phe Thr Val Ala Gln Asn Glu Arg Phe Asp Glu Ile Tyr Arg Arg
        115                 120                 125

Lys Met Glu Gly Thr Ser Ile Asn Phe Cys Met Glu Leu
    130                 135                 140
```

<210> 6089
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6089
Asn Lys His Leu Glu Ala Ile Phe Gly Leu Ile Lys Ile Val Leu Gly
1 5 10 15

Arg Ala Trp Trp Leu Thr Pro Ala Ile Pro Ala Leu Trp Glu Ala Glu
20 25 30

Asp Ser Gly Phe Leu Glu Leu Arg Ser Trp Glu Thr Ser Leu Gly Asn
35 40 45

Met Val Ile Pro Val Cys Leu Phe Lys Ile Lys Lys Ile Asn Glu Val
50 55 60

Met
65

<210> 6090
<211> 85
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6090
Val Ala Lys Gly Leu Leu Ser His Leu Cys Pro Pro Xaa Ile Leu Lys
1 5 10 15

Ala Arg Ser Leu Glu Phe Glu Leu Cys Pro His Met Pro Pro Arg His
20 25 30

Gln Gln Ser Lys Met Lys Ser Leu His Cys Leu Ser Val Asp Pro Thr
35 40 45

Leu Ser Pro His Trp Arg Gly Arg Gly Gly Gly Leu Arg Met Ser Ser
50 55 60

Ser Cys Pro Gly Cys Asn Met Val Lys Asp Glu Arg Lys Glu Met Leu
65 70 75 80

Gly Ala Ser Leu His
85

<210> 6091

<211> 90
<212> PRT
<213> Homo sapiens

<400> 6091
Gln Glu Pro Ser Ser Arg Val Ser Cys Phe Lys Ala Pro Tyr Pro Phe
1 5 10 15

Leu Arg Val Thr Asn Thr Cys Ala Arg Ser Leu Pro Phe Pro Ser Ser
20 25 30

Pro Cys Ile Trp Leu Ile Thr Gly Gln Leu Pro Ala Ser Leu Gln Phe
35 40 45

Gly Arg Trp Val Gly Asn Asp His His Ser Pro Arg Ser Pro Asp Gly
50 55 60

Leu Val Phe Arg Ala Leu His Arg His Leu Gln Gln Ala Pro Ala Arg
65 70 75 80

Pro Glu Val Ile Leu Arg Arg Asp Gly Ser
85 90

<210> 6092
<211> 45
<212> PRT
<213> Homo sapiens

<400> 6092
Leu Gln Leu Trp Ile Ala Tyr Phe Glu Lys Gly Glu Leu Gln Ile Leu
1 5 10 15

Pro Lys Asp Gly Glu Lys His Ile Lys Lys Ile Pro Thr Phe Arg Asn
20 25 30

Ser Phe Gln Gln Leu Leu Leu Glu Ile Phe Lys Leu Ile
35 40 45

<210> 6093
<211> 49
<212> PRT
<213> Homo sapiens

<400> 6093
Ile Ser Asp Lys Phe Pro Gly Asn Ala Asp Phe Thr Val Gln Gly Pro
1 5 10 15

```
His Phe Gly Asn His Thr Asn Arg Asn Leu Met Gln Thr Gln Gly Thr
            20                  25                  30

Tyr Gln Lys Ile Phe Asn Gln Val Ile Leu His Asp Lys Gly Gln Gln
        35                  40                  45

Cys
```

<210> 6094
<211> 58
<212> PRT
<213> Homo sapiens

<400> 6094

```
Thr Gly Phe His His Val Ser Gln Ala Ser Leu Glu Leu Leu Thr Ser
  1               5                  10                  15

Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Ile
            20                  25                  30

Ser His Arg Ala Trp Pro Asn Asn Trp Asn Ile Phe Ile Met Lys Met
        35                  40                  45

Ser Ser Ala Leu Pro Lys Glu Thr Thr Asn
    50                  55
```

<210> 6095
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6095

```
Cys Lys His Cys Ile Ser Tyr Val Glu Met Val Lys Asp Asp Tyr Glu
  1               5                  10                  15

Asp Asp Ser His Val Phe Arg Lys Pro Ala Asn Asp Ile Thr Ser Gln
            20                  25                  30

Leu Glu Ile Asn Phe Gly Asn Leu Pro Arg Pro Gly Arg Gly Ala Arg
        35                  40                  45

Gly Gly Thr Arg Gly Gly Arg Gly Arg Ile Arg Arg Ala Glu Asn Tyr
    50                  55                  60

Gly Pro Arg Ala Glu Val Val Met Gln Asp Val Ala Pro Asn Pro Asp
 65                  70                  75                  80
```

Asp Pro Glu Asp Phe Pro Ala Leu Ser
85

<210> 6096
<211> 32
<212> PRT
<213> Homo sapiens

<400> 6096
Lys Leu Lys Met Leu Ala Glu His Phe Val Val Leu Gln Ala Leu Leu
1 5 10 15

Ile Phe His Cys Ser Thr Cys Cys Trp Gln Ser Asn Phe Ser Glu Leu
20 25 30

<210> 6097
<211> 65
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6097
Ala Glu His Cys Ser Pro Ile Leu Val Leu Ile Trp Lys Phe Leu Gly
1 5 10 15

His Tyr Ala Asp Lys Lys Thr Arg Thr Pro Gly Ala Arg Lys Thr Cys
20 25 30

Cys Lys Ser Leu Val Cys Ser Tyr Glu Cys Pro Ser Thr Leu Glu Glu
35 40 45

Ala Leu Asp Ser Pro Val Pro Ser Phe Leu Gly Ala Arg Val Pro Xaa
50 55 60

Cys
65

<210> 6098
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6098
Phe Tyr Cys Tyr Ser Glu Glu Ser Gln Leu Thr Asp Leu Asp Asp Phe
1 5 10 15

Lys Asp Ala Val Gln Met Arg Glu Gly Cys Lys Tyr Cys Phe Ser Ile
20 25 30

Xaa Glu Leu Thr Val Ala Lys Val Gly Tyr Ser Ile Glu Ser Leu
35 40 45

<210> 6099
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (153)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6099
Ile Arg His Glu Glu Thr Ser Ile Ala Leu Gln Asp Asn Tyr Glu Ile
1 5 10 15

Arg Tyr Thr Ala Ile Ser Val Ile Lys Asn Leu Leu Ile Lys His Ala
20 25 30

Phe Asp Thr Arg Tyr Gln His Lys Asn Gln Gln Ala Lys Ile Ala Gln
35 40 45

Leu Tyr Leu Pro Phe Val Gly Leu Leu Leu Glu Asn Ile Gln Arg Leu
50 55 60

Ala Gly Arg Asp Thr Leu Tyr Ser Cys Ala Ala Met Pro Asn Ser Ala

```
65                  70                  75                  80

Ser Arg Asp Glu Phe Pro Cys Gly Phe Thr Ser Pro Ala Asn Arg Gly
                85                  90                  95

Ser Leu Ser Thr Asp Lys Asp Thr Ala Tyr Gly Ser Phe Gln Asn Gly
            100                 105                 110

His Gly Ile Lys Arg Glu Asp Ser Arg Gly Ser Leu Phe Pro Glu Gly
        115                 120                 125

Ala Thr Gly Phe Pro Asp Gln Gly Asn Thr Gly Glu Asn Thr Arg Gln
    130                 135                 140

Asn Ser Thr Arg Xaa Ile Val Ser Xaa Tyr Asn Arg Leu Asp Gln Tyr
145                 150                 155                 160

Glu Ile Thr Thr Ser
                165
```

<210> 6100
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6100

```
Gln Arg Gly Arg Trp Lys Gln Cys Ser Trp Lys Leu Leu Leu Ser Pro
  1               5                  10                  15

Leu Ser His His Ser Arg His Leu Leu Gln Ala Gly Arg His Val Ser
             20                  25                  30

Val Arg Phe Leu Pro Gly Asp Ile Arg Ser Pro Xaa Ile Gln Ile Lys
         35                  40                  45

Cys Asn Ile Leu Gln Thr Ala Leu Leu Arg Glu Ile Ser
     50                  55                  60
```

<210> 6101
<211> 156
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6101

```
Trp Ile Pro Arg Ala Ser Gly Ile Arg His Glu His Leu Arg Ser His
  1               5                  10                  15

Thr Gln Glu Lys Val Val Ala Cys Pro Thr Cys Gly Gly Met Phe Ala
             20                  25                  30

Asn Asn Thr Lys Phe Leu Asp His Ile Arg Arg Gln Thr Ser Leu Asp
         35                  40                  45

Gln Gln His Phe Gln Cys Ser His Cys Ser Lys Arg Phe Ala Thr Glu
     50                  55                  60

Arg Leu Leu Arg Asp His Met Arg Asn His Val Asn His Tyr Lys Cys
 65                  70                  75                  80

Pro Leu Cys Asp Met Thr Cys Pro Leu Pro Ser Xaa Leu Arg Asn His
                 85                  90                  95

Met Arg Phe Arg His Ser Glu Asp Arg Pro Phe Lys Cys Xaa Cys Cys
            100                 105                 110

Asp Tyr Ser Cys Lys Asn Leu Ile Asp Leu Gln Lys His Leu Asp Thr
        115                 120                 125

His Ser Glu Glu Pro Ala Tyr Arg Cys Asp Phe Glu Asn Cys Thr Ser
    130                 135                 140

Val Xaa Asp Pro Leu Leu Tyr Gln Val Pro Leu Pro
145                 150                 155
```

<210> 6102
<211> 65

<212> PRT
<213> Homo sapiens

<400> 6102
Phe Cys Leu Leu Leu Ala Gly Glu Glu Ala Met Ser Trp Tyr Ser Gln
1 5 10 15

Trp Ser Gln Asp Pro Glu Cys Val Ala Lys Pro Tyr Thr Ala Phe His
20 25 30

Gly Leu Phe Leu Gly Ala Arg Val Gly Gly Asp Met Val Leu Gly Ser
35 40 45

Asn Leu Pro Cys Asn Arg Trp Arg Ala Val Phe Ser Met Ala Pro Ala
50 55 60

Val
65

<210> 6103
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6103
Leu Gln Val Thr Leu Ser Ser Trp Pro Xaa Ile Ala Pro Arg Leu Phe
1 5 10 15

Leu Pro His Trp Gly Gln Ser Phe Pro Trp Thr Lys Glu Arg Xaa Leu
20 25 30

Gln Pro Phe Phe Lys Ser Leu Gly Pro Gly Pro Trp His Gln His His
35 40 45

```
Xaa Ser Leu Tyr Ser Ile His Gln Lys His Leu Lys Pro Thr Gln Ile
     50                  55                  60

Cys Ser Met Gly Ser Ile His Val
 65                  70
```

<210> 6104
<211> 137
<212> PRT
<213> Homo sapiens

<400> 6104

```
Val Tyr Lys Tyr Leu Phe Phe Lys Arg Arg Cys Cys Ala Cys Glu Thr
  1               5                  10                  15

Ile Leu Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Val Thr Ala
             20                  25                  30

Lys Asp Arg Glu Pro Phe His Phe Gly His Thr Gly Leu Leu Ser Arg
         35                  40                  45

Ser His Phe Ser Ser Trp Leu Leu Lys Ile Thr Ala Ser Pro Val Pro
     50                  55                  60

Ser Trp Arg Ser Ser Arg Gly Arg Ala Asp Phe Ser Pro Thr Gly Gly
 65                  70                  75                  80

Thr Met Trp Gly Ser Glu Gly Trp Glu Gly Asp Phe Pro Leu Glu Trp
                 85                  90                  95

Trp Ser Cys Trp Gly Leu Ile Ser Arg Asp Pro Lys Gly Gly Leu Cys
            100                 105                 110

Arg Arg Phe His Ile Gly Gly Ala Leu Ser Leu Ala Ala Val Arg Val
        115                 120                 125

Gly Pro Gly Cys Gly Val Gln Thr Ala
    130                 135
```

<210> 6105
<211> 65
<212> PRT
<213> Homo sapiens

<400> 6105

```
Gly Asn Ser Arg Val Asp Pro Arg Val Arg Arg Asn Val Thr Arg Val
  1               5                  10                  15
```

Arg Gly Ser Tyr Leu Tyr Ile Gly Phe Pro Ala Glu Asn Arg Pro Leu
20 25 30

Leu Tyr Arg Phe Trp Val His Asn Leu Ala Leu Leu Val Asn Pro Arg
35 40 45

Asp Leu Ser Asp Pro Pro Pro Pro Val Phe Phe Leu Phe Leu Phe Leu
50 55 60

Phe
65

<210> 6106
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6106
Tyr Tyr Lys Ser Tyr Cys Thr His Phe Val Leu Glu Lys Asn Thr Glu
1 5 10 15

Ala Val Ala Gln Thr Leu Phe Asn Ile Arg Glu Phe Ile Leu Glu Lys
20 25 30

Asn Pro Ala Asn Val Met Asn Leu Glu Lys His Phe Phe Ser Lys Thr
35 40 45

Thr Ala
50

<210> 6107
<211> 67
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6107

```
Val Asp Arg Ala Ile Ser Ile Thr Leu Arg Pro Leu Trp Val Ile Gly
 1               5                  10                  15

Ala Asp Lys Val Pro Cys Ile Ala Asp Glu Ile Ser Pro Ser Trp Thr
            20                  25                  30

Phe Pro Arg Asn Gly Pro Gly Val Ser Ser Asn Leu Ser Xaa Xaa Ile
        35                  40                  45

Thr Cys Leu Glu Ile Thr Leu Glu Tyr Val Ser Tyr Lys Ala Arg Ser
    50                  55                  60

His Gly Asn
65
```

<210> 6108
<211> 47
<212> PRT
<213> Homo sapiens

<400> 6108

```
Thr Arg Glu Arg Arg Gly Gly Asn Met Lys Val Asn Leu Asn Asn Phe
 1               5                  10                  15

Cys Asn Thr Ser Tyr Leu Gln Thr Ile Gly Phe Met Leu Leu His Ser
            20                  25                  30

Arg Cys Asp Leu Ser Tyr Val Ser Asp Arg Phe Tyr Glu Leu Phe
        35                  40                  45
```

<210> 6109
<211> 122
<212> PRT
<213> Homo sapiens

<400> 6109

```
Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys
 1               5                  10                  15

Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys
            20                  25                  30

Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys
        35                  40                  45

Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr
    50                  55                  60
```

Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala
65 70 75 80

Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys
85 90 95

Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu
100 105 110

Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu
115 120

<210> 6110
<211> 82
<212> PRT
<213> Homo sapiens

<400> 6110
Val Asp Phe Leu Phe Ala Ile Asn Gln Ala Lys Val Asn Ala Ile Ile
1 5 10 15

Ser Arg Phe Met Val Asn Lys Phe Glu Val Trp Ile Asn Leu Ser His
20 25 30

Ile Phe Tyr Cys Ser Leu Val Lys Lys Gly Thr Arg Lys Lys Ile Ser
35 40 45

Ser Ser Leu Val Leu Ser Gln Cys Gly Asp Cys Arg Lys Leu Thr Met
50 55 60

Pro Ala Cys Val Asn Val Trp Leu Thr Val Lys Ala Ser Phe Leu Ala
65 70 75 80

Ala Cys

<210> 6111
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6111
Met Val Leu Arg Lys Tyr Phe Leu Trp Lys Ile Gly Arg Lys Tyr Phe
1 5 10 15

Asn Leu Asn Ile Lys Lys Ile Gly Asn Cys Tyr Phe Gln Gln Gln Ser
20 25 30

Pro Xaa

<210> 6112
<211> 87
<212> PRT
<213> Homo sapiens

<400> 6112
Gly Ser Pro Gly Ala His Glu Pro Cys Gln Ala Pro Ala Gly Ser Ser
1 5 10 15

Arg His Val Pro Asp Leu Trp Gly Pro Arg Glu Gly Thr Phe Pro Ser
20 25 30

Trp Glu Arg Arg Arg Ser Gly Gln Leu Gly Glu Gly Cys Glu His Phe
35 40 45

Pro Pro Gly Arg Asp Gln Gly Asp Leu His Ala Leu Arg Arg Ala Trp
50 55 60

Lys Gly Ser Glu Lys Pro Ala Asp Arg Pro Cys Pro Ser Ser Arg Asp
65 70 75 80

His Leu Met Asn His Val Phe
85

<210> 6113
<211> 253
<212> PRT
<213> Homo sapiens

<400> 6113
Gln Asn Leu Pro Leu Thr Arg Arg Arg Pro Thr Gly Ser Cys Val Cys
1 5 10 15

Leu Gly Arg Gly Gly Pro Gly Gly Gly Gly Leu Arg Ala Gly Ser Arg
20 25 30

His Pro Ala Pro Ala Ala Met His Pro Arg Arg Pro Asp Gly Phe Asp

```
         35                  40                  45

Gly Leu Gly Tyr Arg Gly Gly Ala Arg Asp Glu Gln Gly Phe Gly Gly
     50                  55                  60

Ala Phe Pro Ala Arg Ser Phe Ser Thr Gly Ser Asp Leu Gly His Trp
 65                  70                  75                  80

Val Thr Thr Pro Pro Asp Ile Pro Gly Ser Arg Asn Leu His Trp Gly
                 85                  90                  95

Glu Lys Ser Pro Pro Tyr Gly Val Pro Thr Thr Ser Thr Pro Tyr Glu
            100                 105                 110

Gly Pro Thr Glu Glu Pro Phe Ser Ser Gly Gly Gly Gly Ser Val Gln
        115                 120                 125

Gly Gln Ser Ser Glu Gln Leu Asn Arg Phe Ala Gly Phe Gly Ile Gly
    130                 135                 140

Leu Ala Ser Leu Phe Thr Glu Asn Val Leu Ala His Pro Cys Ile Val
145                 150                 155                 160

Leu Arg Arg Gln Cys Gln Val Asn Tyr His Ala Gln His Tyr His Leu
                165                 170                 175

Thr Pro Phe Thr Val Ile Asn Ile Met Tyr Ser Phe Asn Lys Thr Gln
            180                 185                 190

Gly Pro Arg Ala Leu Trp Lys Gly Met Gly Ser Thr Phe Ile Val Gln
        195                 200                 205

Gly Val Thr Leu Gly Ala Glu Gly Ile Ile Ser Glu Phe Thr Pro Leu
    210                 215                 220

Pro Arg Glu Val Leu His Lys Trp Ser Pro Lys Gln Ile Gly Glu His
225                 230                 235                 240

Leu Leu Leu Lys Ser Leu Asn Leu Arg Gly Gly Asn Ala
                245                 250
```

<210> 6114
<211> 168
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6114

```
Ile Leu Phe Cys Pro Ala Ala Ala Xaa Lys Ala Ser His Pro Thr Pro
  1               5                  10                  15

Arg Thr Phe Leu Val Arg Ser Gly Leu Ala Trp Gly Pro Pro Phe Ser
             20                  25                  30

Val Ser Leu Val Cys Leu Tyr Pro Ala Leu Leu Ser Ser Leu Cys Ser
         35                  40                  45

Ala Cys Leu Ser Leu Phe Ala Ser Pro Phe Ser Leu Ser Cys Arg Leu
     50                  55                  60

Leu Ser Leu Gly Pro Pro Trp Phe Cys Leu Val Ser Leu Ser Leu Leu
 65                  70                  75                  80

Ile Ser Ser Leu Tyr Ser Phe Ser Arg Ala Gly Pro Thr Gly Arg Thr
                 85                  90                  95

Arg Leu Ser Gln Ile Asn Pro His Thr Asn Lys Ile Gln Asn Gln Ile
            100                 105                 110

Pro Leu Xaa Thr Gly Ala Gly Thr Leu Arg Arg Ser Arg Ile Lys Leu
        115                 120                 125

Phe Ser Val Ser Glu Ala Leu Leu Thr Cys Val Cys Val Cys Val Cys
    130                 135                 140

Val Leu Gly Glu Gly Asp Leu Asp Cys Ser Ile Arg Thr Leu Ser Glu
145                 150                 155                 160

Thr Glu Gly Arg Trp Glu Asp Asp
                165
```

<210> 6115
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (169)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6115

```
His Glu Val Glu Asn Asn Thr Leu Gly Ser Pro Ala Ala Ser Glu Leu
  1               5                  10                  15

Leu Glu His Leu Lys Pro Thr Tyr Trp Phe Ser Ala His Leu His Val
             20                  25                  30

Lys Phe Ala Ala Leu Met Gln His Gln Ala Lys Asp Lys Gly Gln Thr
         35                  40                  45

Ala Arg Ala Thr Lys Phe Leu Ala Leu Asp Lys Cys Leu Pro His Arg
     50                  55                  60

Asp Phe Leu Gln Ile Leu Glu Ile Glu His Asp Pro Ser Ala Pro Asp
 65                  70                  75                  80

Tyr Leu Glu Tyr Asp Ile Glu Trp Leu Thr Ile Leu Arg Ala Thr Asp
                 85                  90                  95

Asp Leu Ile Asn Val Thr Gly Arg Leu Trp Asn Met Pro Glu Asn Asn
            100                 105                 110

Gly Leu His Ala Arg Trp Asp Tyr Ser Ala Thr Glu Glu Gly Met Lys
        115                 120                 125

Glu Val Leu Glu Lys Leu Asn His Asp Leu Lys Xaa Pro Cys Asn Phe
    130                 135                 140

Ser Val Thr Ala Ala Cys Tyr Asp Pro Ser Lys Pro Xaa Thr Gln Met
145                 150                 155                 160

Gln Leu Ile His Arg Ile Asn Pro Xaa Thr Thr Glu Phe Cys Ala Gln
                165                 170                 175

Leu Gly Ile Ile
            180
```

<210> 6116
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6116
Asn Tyr Lys Ile Cys Met Tyr Leu Ala Leu Asn His Asn Leu Lys Tyr
1 5 10 15

Phe Met Asn Ser Phe Thr Ser Ile Asp Ser Gln Asn Ser Asn Xaa Lys
20 25 30

Leu Ala Ser Glu Pro Val Arg Thr Pro Pro His Pro Ser Ser Cys Leu
35 40 45

Asp Leu Ser Thr Ala Ile Ile Leu Cys Lys Ala Val Val Leu Thr
50 55 60

<210> 6117
<211> 72
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6117
Thr Leu Thr Lys Gly Xaa Lys Ser Trp Xaa Ser Thr Ala Val Thr Thr
1 5 10 15

Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala
20 25 30

Gln Leu Thr Arg Cys Gln Leu Gly Ser Cys Ser Gly Gly Arg Lys Arg
35 40 45

Leu Arg Arg Phe Pro Ala Leu Ser Pro Gln Pro Xaa Arg Xaa Ser Gly
50 55 60

Ser Gln Asp Val Xaa Phe Asp Asp
65 70

<210> 6118
<211> 257
<212> PRT
<213> Homo sapiens

<400> 6118
Pro Arg Val Arg Ala Phe Ala Gly Val Pro Thr Arg Gly Arg Thr Arg
1 5 10 15

Gly Gln Ser Arg Arg Cys Ala Ala Glu Ala Ser Ala Gly Pro Glu Arg
20 25 30

Asp Ala Arg Pro Gly Ala Pro Ala Ala Gly Thr Met Gly Ala Ala His
35 40 45

Ser Ala Ser Glu Glu Val Arg Glu Leu Glu Gly Lys Thr Gly Phe Ser
50 55 60

Ser Asp Gln Ile Glu Gln Leu His Arg Arg Phe Lys Gln Leu Ser Gly
65 70 75 80

Asp Gln Pro Thr Ile Arg Lys Glu Asn Phe Asn Asn Val Pro Asp Leu
85 90 95

Glu Leu Asn Pro Ile Arg Ser Lys Ile Val Arg Ala Phe Phe Asp Asn
100 105 110

Arg Asn Leu Arg Lys Gly Pro Ser Gly Leu Ala Asp Glu Ile Asn Phe
115 120 125

```
Glu Asp Phe Leu Thr Ile Met Ser Tyr Phe Arg Pro Ile Asp Thr Thr
    130                 135                 140

Met Asp Glu Glu Gln Val Glu Leu Ser Arg Lys Glu Lys Leu Arg Phe
145                 150                 155                 160

Leu Phe His Met Tyr Asp Ser Asp Ser Asp Gly Arg Ile Thr Leu Glu
                165                 170                 175

Glu Tyr Arg Asn Val Val Glu Glu Leu Leu Ser Gly Asn Pro His Ile
            180                 185                 190

Glu Lys Glu Ser Ala Arg Ser Ile Ala Asp Gly Ala Met Met Glu Ala
        195                 200                 205

Ala Ser Val Cys Met Gly Gln Met Glu Pro Asp Gln Val Tyr Glu Gly
    210                 215                 220

Ile Thr Phe Glu Asp Phe Leu Lys Ile Trp Gln Gly Ile Asp Ile Glu
225                 230                 235                 240

Thr Lys Met His Val Arg Phe Leu Asn Met Glu Thr Met Ala Leu Cys
                245                 250                 255

His
```

<210> 6119
<211> 94
<212> PRT
<213> Homo sapiens

<400> 6119

```
Leu Ser Ser Gly Ala Glu Gly Asp Pro Gly Ser Leu Thr Gly Arg Ala
  1               5                  10                  15

Phe Phe Phe Thr Thr Thr Trp Ala Glu Val Arg Glu Phe Cys His Thr
             20                  25                  30

Gly Gly Arg Val Thr His Gln Gly Gly Met Trp Leu Gln Gln Ala Lys
         35                  40                  45

Gly His Arg Lys Gly Gly Ala Gly Asp Ser Arg Val Ala Ala Thr Leu
     50                  55                  60

Val Gly Trp Gly Gly Ala Gly Gly Arg Ser Asn Arg Asp Gly Val Gly
 65                  70                  75                  80
```

```
Leu Lys Lys Ser Phe Phe Phe Ser Phe Phe Lys Gln Lys Lys
                 85                  90
```

<210> 6120
<211> 120
<212> PRT
<213> Homo sapiens

<400> 6120

```
Arg Tyr Phe Leu Lys Met Ala Lys Ile Leu Thr Thr Pro Lys Phe Ala
  1               5                  10                  15

His Ala Phe Arg Asn Leu Thr Phe Glu Gly Tyr Asp Gly Pro Val Thr
             20                  25                  30

Leu Asp Asp Trp Gly Asp Val Asp Ser Thr Met Val Leu Leu Tyr Thr
         35                  40                  45

Ser Val Asp Thr Lys Lys Tyr Lys Val Leu Leu Thr Tyr Asp Thr His
     50                  55                  60

Val Asn Lys Thr Tyr Pro Val Asp Met Ser Pro Thr Phe Thr Trp Lys
 65                  70                  75                  80

Asn Ser Lys Leu Pro Asn Asp Ile Thr Gly Arg Gly Pro Gln Ile Leu
                 85                  90                  95

Met Ile Ala Val Phe Thr Leu Thr Gly Ala Val Val Leu Ser Cys Arg
            100                 105                 110

Arg Ser Pro Asp Ala Gln Lys Ile
        115                 120
```

<210> 6121
<211> 72
<212> PRT
<213> Homo sapiens

<400> 6121

```
Arg Pro Glu Gly Ala Gln Leu Cys Pro Gln Gly Lys Leu Lys Ser Pro
  1               5                  10                  15

Ala Leu Ser Ala Leu Gly Pro Cys Arg Ala Val Arg Val Glu Leu Pro
             20                  25                  30

Pro Gln Thr Leu Arg Ser His Ala Val His Ser Ser Ser Trp Ile Ser
         35                  40                  45
```

Leu Arg Thr Phe Val Leu Ala Tyr Leu Asn Asp Leu Ser Thr Glu Thr
50 55 60

Pro Gly Cys Leu Pro Leu Pro Leu
65 70

<210> 6122
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6122
Val Leu Xaa Ser Ile Pro Phe Ile Ile Ser Tyr Val Ile Ser Leu Ser
1 5 10 15

Phe Leu Val Gly Ser Lys Thr His Xaa Gln Phe Ser Gln Ser Ser Met
20 25 30

Asp Ile

<210> 6123
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6123
Ser Ser Phe Pro Gln Pro Pro Xaa His Gly Trp Val Gly Glu Ala Arg
1 5 10 15

Arg Asn Xaa Leu Arg Gln Glu Val Ala Ala Ala Gln Val Xaa Leu Leu
20 25 30

Ala Ser Glu Pro Thr Glu Val Arg Ser Gly Arg Trp Thr Cys Pro Pro
35 40 45

Asn Val Pro Asp Ser Gly Ser Cys Cys His Trp Ile Ser Trp His Gly
50 55 60

Arg Gln Lys Glu Arg
65

<210> 6124
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6124
Thr Pro Ala Pro Pro Ser Pro Ala Ala Ala Arg Glu Ser Thr Arg Arg
1 5 10 15

Val Ala Ile Asn Val Arg Ala Ser Ile Ala Leu Ser Ser Ser Leu Arg
20 25 30

Thr Leu Val Leu Pro Arg Leu Thr Pro Thr Ser Pro Gly Pro Arg Gly
35 40 45

Trp Gly Asn Leu Ala Val Pro Arg Leu Ser Asn Lys Ala Val Leu Ser
50 55 60

Asn Ser Lys Lys Lys Lys Lys Xaa Ser Phe Phe Phe Phe Phe Xaa
65 70 75 80

<210> 6125
<211> 92
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6125
Ser Ser Ser Xaa Lys Xaa Asp Xaa Arg Ile Gly Lys Ala Gly Thr Pro
1 5 10 15

Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Gly Glu
20 25 30

Val Leu Phe Ser Thr Cys Gly Val Ser His Trp Lys His Asn Pro Ile
35 40 45

Val Pro Glu Gly Phe Ser Pro Gln Trp Leu Ser His Pro Lys Arg Lys
50 55 60

Ser Leu Ser Phe Leu Thr Leu Leu Phe Cys His Leu Leu Pro Leu Asp
65 70 75 80

Asn Gln Gly Gln Gly Ala Thr Trp Lys Cys Leu Thr
85 90

<210> 6126
<211> 105

<212> PRT
<213> Homo sapiens

<400> 6126
Asp Glu Glu Ala Lys Asp Glu Lys Ala Glu Pro Asn Arg Asp Lys Ser
1 5 10 15

Val Gly Pro Leu Pro Gln Ala Asp Pro Glu Val Ser Asp Ile Glu Ser
20 25 30

Arg Ile Ala Ala Leu Arg Ala Ala Gly Leu Thr Val Lys Pro Ser Gly
35 40 45

Lys Pro Arg Arg Lys Ser Asn Leu Pro Ala Leu Tyr Glu Gly Thr Leu
50 55 60

Ser Leu Cys Ser Glu Asp Leu Lys His Thr His Pro Asp Ser Val Lys
65 70 75 80

Ser Lys Arg Ser Arg Leu Asn His Val Ala Ser Cys Gly Asn Leu Ser
85 90 95

Pro Pro Pro Arg Glu Asp Gly Cys Asp
100 105

<210> 6127
<211> 42
<212> PRT
<213> Homo sapiens

<400> 6127
Thr Pro Glu Leu Lys Arg Ser Phe His Leu Ile Leu Gln Ser Ser Trp
1 5 10 15

Asp Tyr Ser Arg Val Ser Thr Cys Leu Ala Asn Phe Ser Phe Leu Ile
20 25 30

Phe Leu Glu Leu Gly Ser His Tyr Val Ala
35 40

<210> 6128
<211> 176
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<210> 6129
<211> 205
<212> PRT
<213> Homo sapiens

<400> 6129
Lys Val His Ser Ser Glu Ala Gly Leu Thr Ser Arg Phe Leu Ile Ala
1 5 10 15

Trp Asp Val His Arg Ala Asn Val Leu Glu Gly Gly Asp Pro Thr Phe
20 25 30

Pro Gln Leu Thr Ala Ser Pro His Ser Met Asp Ser Met Leu Pro Ser
35 40 45

Gly Glu Gly Gly Pro Lys Arg Thr His Pro Thr Val Pro Gly Ile Pro
50 55 60

Gly Gly Thr Arg Ala Gly Ala Gly Lys Ile Gly Arg Met Ile Ala Glu
65 70 75 80

Glu Ile Met Glu Ile His Arg Ile Arg Gly Ser Ser Pro Ser Ser Cys
85 90 95

Gly Ser Ser Pro Leu Asn Ile Thr Ser Thr Pro Pro Pro Asp Ala Ser
100 105 110

Ser Pro Gly Gly Lys Lys Ile Leu Asn Gly Gly Thr Pro Asp Ile Pro
115 120 125

Ser Ser Gly Leu Leu Ser Gly Gln Ala Gln Glu Asn Pro Gly Tyr Pro
130 135 140

Tyr Ser Asp Ser Ser Ser Ile Leu Gly Glu Asn Pro His Ile Gly Ile
145 150 155 160

Asp Met Ile Asp Asn Asp Gln Gly Ser Ser Ser Pro Ser Asn Asp Glu
165 170 175

Ala Ala Met Ala Val Ile Met Ser Leu Leu Glu Ala Asp Ala Gly Leu
180 185 190

Gly Gly Pro Val Asp Phe Ser Asp Leu Pro Trp Pro Leu
195 200 205

<210> 6130
<211> 63
<212> PRT

65 70 75 80

Ser Lys Leu Pro Pro Asn His Glu Asp Leu Ala Lys Val Ala Lys Ile
85 90 95

Gly Thr Asp Val Leu Ser Thr Arg Tyr Glu Thr Arg Tyr Ile Tyr Gly
100 105 110

Pro Ile Glu Ser Thr Ile Tyr Pro Ile Ser Gly Ser Ser Leu Asp Trp
115 120 125

Ala Tyr Asp Leu Gly Ile Lys His Thr Phe Ala Phe Glu Leu Arg Asp
130 135 140

Lys Gly Lys Phe Gly Phe Leu Leu Pro Glu Ser Arg Ile Lys Pro Thr
145 150 155 160

Cys Arg Glu Thr Met Leu Ala Val Lys Phe Ile Ala Lys Tyr Ile Leu
165 170 175

Lys His Thr Ser
180

<210> 6134
<211> 42
<212> PRT
<213> Homo sapiens

<400> 6134
Met Val Leu Phe Ala Val Thr Gln Thr Thr Leu His Lys Thr Phe Phe
1 5 10 15

Pro Lys Trp Tyr Lys Phe Ile Asn Tyr His Phe Ser Leu Thr Val Phe
20 25 30

Val Asn Thr Thr Leu Gln Lys Ser Ala Phe
35 40

<210> 6135
<211> 212
<212> PRT
<213> Homo sapiens

<400> 6135
Phe Tyr Leu Gly Ser Ser Thr Ala Ser Asp Phe Leu Ala Val Glu Met
1 5 10 15

```
Arg Arg Gly Arg Val Ala Phe Leu Trp Asp Leu Gly Ser Gly Ser Thr
            20                  25                  30

Arg Leu Glu Phe Pro Asp Phe Pro Ile Asp Asp Asn Arg Trp His Ser
        35                  40                  45

Ile His Val Ala Arg Phe Gly Asn Ile Gly Ser Leu Ser Val Lys Glu
    50                  55                  60

Met Ser Ser Asn Gln Lys Ser Pro Thr Lys Thr Ser Lys Ser Pro Gly
65                  70                  75                  80

Thr Ala Asn Val Leu Asp Val Asn Asn Ser Thr Leu Met Phe Val Gly
                85                  90                  95

Gly Leu Gly Gly Gln Ile Lys Lys Ser Pro Ala Val Lys Val Thr His
            100                 105                 110

Phe Lys Gly Cys Leu Gly Glu Ala Phe Leu Asn Gly Lys Ser Ile Gly
        115                 120                 125

Leu Trp Asn Tyr Ile Glu Arg Glu Gly Lys Cys Arg Gly Cys Phe Gly
    130                 135                 140

Ser Ser Gln Asn Glu Asp Pro Ser Phe His Phe Asp Gly Ser Gly Tyr
145                 150                 155                 160

Ser Val Val Glu Lys Ser Leu Pro Ala Thr Val Thr Gln Ile Ile Met
                165                 170                 175

Leu Phe Asn Thr Phe Ser Pro Asn Gly Leu Leu Ser Leu Pro Gly Phe
            180                 185                 190

Ile Arg His Lys Arg Leu Phe Ile His Arg Ala Val Ser Trp Gln Ser
        195                 200                 205

Glu Gly Tyr Asp
    210
```

<210> 6136
<211> 75
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6136
His Ala Ser Pro Pro Ser Glu Lys Lys Ile Leu Arg Gln Ser Met Cys
1 5 10 15

Phe Ser Cys Pro Ser Xaa His Arg Ser Leu Ser Xaa Thr Gln Xaa Asp
20 25 30

Phe Ser Gly Val Lys Phe Arg Arg His Gly Ala Asp Asn His Glu Ala
35 40 45

Ser Ala Ala Thr Ala Thr Thr Ala Ala Ala Thr Thr Val Ala Ala Ala
50 55 60

Ala Ala Ala Ala Ala Ala Arg Val Thr Leu Thr
65 70 75

<210> 6137
<211> 186
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6137
Lys Leu Thr Leu Thr Lys Gly Xaa Lys Ser Trp Glu Leu His Arg Gly
1 5 10 15

Asp Xaa Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly
20 25 30

Thr Arg Thr Thr Glu Gly Glu Glu Ile Thr Glu Ser Ser Ser Thr Glu

```
        35                  40                  45

Glu Met Glu Val Arg Ser Val Val Ala Asp Thr Asp Gln Lys Ala Leu
     50                  55                  60

Gly Ser Glu Val Gln Asp Ala Ser Lys Val Thr Thr Gln Ile Asp Lys
 65                  70                  75                  80

Glu Lys Lys Glu Ile Pro Val Ser Ile Lys Lys Glu Pro Glu Val Thr
                 85                  90                  95

Val Val Ser Gln Pro Thr Glu Pro Gln Pro Val Leu Ile Pro Ser Ile
            100                 105                 110

Asn Ile Asn Ser Asp Ser Gly Glu Asn Lys Glu Glu Ile Gly Ser Leu
        115                 120                 125

Ser Lys Thr Glu Thr Ile Leu Pro Pro Glu Ser Glu Asn Pro Lys Glu
    130                 135                 140

Asn Asp Asn Asp Ser Gly Thr Gly Ser Thr Ala Asp Thr Ser Ser Ile
145                 150                 155                 160

Asp Leu Asn Leu Ser Ile Ser Ser Phe Leu Ser Lys Thr Lys Asp Ser
                165                 170                 175

Gly Ser Ile Ser Leu Gln Glu Thr Lys Lys
            180                 185
```

<210> 6138
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6138
Xaa Xaa Leu Leu Lys Gly Thr Lys Xaa Gly Ser Ser Thr Ala Val Xaa
1 5 10 15

Thr Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg
20 25 30

Ala Gly Ser Gly Pro Glu Pro Glu Ser Glu Ser Glu Ser Glu Ser Glu
35 40 45

Pro Lys Ser Glu Cys Gln Ser Glu Pro Asp Ser Glu Ser Asp Ala Glu
50 55 60

Ser Asp Ser Glu Phe Glu Pro Glu Gly Glu Pro Gly Lys Pro Glu Ala
65 70 75 80

Glu Leu Arg Gln Gly Ala Glu
85

<210> 6139
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (73)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6139
Arg Ala Phe Gly Gln Ala Arg Xaa Ala Ala Glu Ala Ile Ser Leu Thr
1 5 10 15

Gln Gly Arg Ser Cys Pro Glu Pro Ala Thr Ala Leu Ser Gln Pro Ala

20 25 30

Ser Phe Ser Val Leu Pro Xaa Pro Arg Leu Pro Arg Arg Gly Tyr Pro
35 40 45

Gln Pro Gln Pro Gly Ala Gly Glu Ala Ala Lys Gly Glu Gly Arg Asn
50 55 60

Gln Gly Met Ser Ala Gly Arg Ala Xaa Gly Ala Leu Ser Arg Thr Arg
65 70 75 80

Thr Ala Leu Gly Ala Gly
85

<210> 6140
<211> 594
<212> PRT
<213> Homo sapiens

<400> 6140
Arg Gln Ile Phe Gln Ser Leu Pro Pro Phe Met Asp Ile Leu Leu Leu
1 5 10 15

Leu Leu Phe Phe Met Ile Ile Phe Ala Ile Leu Gly Phe Tyr Leu Phe
20 25 30

Ser Pro Asn Pro Ser Asp Pro Tyr Phe Ser Thr Leu Glu Asn Ser Ile
35 40 45

Val Ser Leu Phe Val Leu Leu Thr Thr Ala Asn Phe Pro Asp Val Met
50 55 60

Met Pro Ser Tyr Ser Arg Asn Pro Trp Ser Cys Val Phe Phe Ile Val
65 70 75 80

Tyr Leu Ser Ile Glu Leu Tyr Phe Ile Met Asn Leu Leu Leu Ala Val
85 90 95

Val Phe Asp Thr Phe Asn Asp Ile Glu Lys Arg Lys Phe Lys Ser Leu
100 105 110

Leu Leu His Lys Arg Thr Ala Ile Gln His Ala Tyr Arg Leu Leu Ile
115 120 125

Ser Gln Arg Arg Pro Ala Gly Ile Ser Tyr Arg Gln Phe Glu Gly Leu
130 135 140

Met Arg Phe Tyr Lys Pro Arg Met Ser Ala Arg Glu Arg Tyr Leu Thr
145 150 155 160

```
Phe Lys Ala Leu Asn Gln Asn Asn Thr Pro Leu Leu Ser Leu Lys Asp
                165                 170                 175

Phe Tyr Asp Ile Tyr Glu Val Ala Ala Leu Lys Trp Lys Ala Lys Lys
            180                 185                 190

Asn Arg Glu His Trp Phe Asp Glu Leu Pro Arg Thr Ala Leu Leu Ile
        195                 200                 205

Phe Lys Gly Ile Asn Ile Leu Val Lys Ser Lys Ala Phe Gln Tyr Phe
    210                 215                 220

Met Tyr Leu Val Val Ala Val Asn Gly Val Trp Ile Leu Val Glu Thr
225                 230                 235                 240

Phe Met Leu Lys Gly Gly Asn Phe Phe Ser Lys His Val Pro Trp Ser
                245                 250                 255

Tyr Leu Val Phe Leu Thr Ile Tyr Gly Val Glu Leu Phe Leu Lys Val
            260                 265                 270

Ala Gly Leu Gly Pro Val Glu Tyr Leu Ser Ser Gly Trp Asn Leu Phe
        275                 280                 285

Asp Phe Ser Val Thr Val Phe Ala Phe Leu Gly Leu Leu Ala Leu Ala
    290                 295                 300

Leu Asn Met Glu Pro Phe Tyr Phe Ile Val Val Leu Arg Pro Leu Gln
305                 310                 315                 320

Leu Leu Arg Leu Phe Lys Leu Lys Glu Arg Tyr Arg Asn Val Leu Asp
                325                 330                 335

Thr Met Phe Glu Leu Leu Pro Arg Met Ala Ser Leu Gly Leu Thr Leu
            340                 345                 350

Leu Ile Phe Tyr Tyr Ser Phe Ala Ile Val Gly Met Glu Phe Phe Cys
        355                 360                 365

Gly Ile Val Phe Pro Asn Cys Cys Asn Thr Ser Thr Val Ala Asp Ala
    370                 375                 380

Tyr Arg Trp Arg Asn His Thr Val Gly Asn Arg Thr Val Val Glu Glu
385                 390                 395                 400

Gly Tyr Tyr Tyr Leu Asn Asn Phe Asp Asn Ile Leu Asn Ser Phe Val
                405                 410                 415

Thr Leu Phe Glu Leu Thr Val Val Asn Asn Trp Tyr Ile Ile Met Glu
            420                 425                 430
```

```
Pro Leu Leu Glu Gly Gln Ile Arg Glu Ser His Gln Lys Ala Thr Glu
     50                  55                  60

Glu Leu Arg Arg Cys Gly Ala Asp Ile Pro Ser Gln Glu Ala Asp Lys
 65                  70                  75                  80

Met Phe Phe Leu Ile Glu Lys Ile Lys Met Phe Asn Gln Asp Ile Glu
                 85                  90                  95

Lys Leu Val Glu Gly Glu Glu Val Val Arg Glu Asn Glu Thr Arg Leu
            100                 105                 110

Tyr Asn Lys Ile Arg Glu Asp Phe Lys Asn Trp Val Gly Ile Leu Ala
        115                 120                 125

Thr Asn Thr Gln Lys Val Lys Asn Ile Ile His Glu Glu Val Glu Lys
    130                 135                 140

Tyr Glu Lys Gln Tyr Arg Gly Lys Glu Leu Leu Gly Phe Val Asn Tyr
145                 150                 155                 160

Lys Thr Phe Glu Ile Ile Val His Gln Tyr Ile Gln Gln Leu Val Glu
                165                 170                 175

Pro Ala Leu Ser Met Leu Gln Lys Ala Met Glu Ile Ile Gln Gln Ala
            180                 185                 190

Phe Ile Asn Val Ala Lys Lys His Phe Gly Glu Phe Phe Asn Leu Asn
        195                 200                 205

Gln Thr Val Gln Ser Thr Ile Glu Asp Ile Lys Val Lys His Thr Ala
    210                 215                 220

Lys Ala Glu Asn Met Ile Gln Leu Gln Phe Arg Met Glu Gln Met Val
225                 230                 235                 240

Phe Cys Gln Asp Gln Ile Tyr Ser Val Val Leu Lys Lys Val Arg Glu
                245                 250                 255

Glu Ile Phe Asn Pro Leu Gly Thr Pro Ser Gln Asn Met Lys Leu Asn
            260                 265                 270

Ser His Phe Pro Ser Asn Glu Ser Ser Val Ser Ser Phe Thr Glu Ile
        275                 280                 285

Gly Ile His Leu Asn Ala Tyr Phe Leu Glu Thr Ser Lys Arg Leu Ala
    290                 295                 300

Asn Gln Ile Pro Phe Ile Ile Gln Tyr Phe Met Leu Arg Glu Asn Gly
305                 310                 315                 320
```

```
Asp Ser Leu Gln Lys Ala Met Met Gln Ile Leu Gln Glu Lys Asn Arg
                325                 330                 335

Tyr Ser Trp Leu Leu Gln Glu Gln Ser Glu Thr Ala Thr Lys Arg Arg
            340                 345                 350

Ile Leu Lys Glu Arg Ile Tyr Arg Leu Thr Gln Ala Arg His Ala Leu
        355                 360                 365

Cys Gln Phe Ser Ser Lys Glu Ile His
    370                 375
```

<210> 6142
<211> 87
<212> PRT
<213> Homo sapiens

<400> 6142

```
Gln Ile Lys Gly Glu Val Leu Ala Lys Ser Ile Cys Glu Asp Asp Thr
  1               5                  10                  15

Leu Gly Ile Ala Gly His Lys Thr Gly Lys Val Gly Lys Cys Ser Leu
             20                  25                  30

Asn Gly Ala Tyr Thr Leu Ser Tyr Arg Gln Trp Glu Ala Leu Gly Lys
         35                  40                  45

Asn Thr Val Ile Arg Lys Phe Cys Ile His Phe Ser Asn Gly Glu Lys
     50                  55                  60

Leu Gly Asn Ser Leu Leu Gly Gly Ser Leu Trp Ala Gly Ile Ser Gln
 65                  70                  75                  80

Leu Ile Ser Gly Phe Ile Phe
                 85
```

<210> 6143
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6143

```
Ile Arg His Arg Leu Asp Leu Leu Leu Gly Val Arg Glu Lys Ser Val
 1               5                  10                  15

Ser Xaa Leu Leu Val Leu Leu Pro Lys Cys Phe Tyr Lys Glu Met Thr
            20                  25                  30

Gly Asp Ile Tyr Ser Pro Lys Glu Leu Ile Tyr
        35                  40
```

<210> 6144
<211> 76
<212> PRT
<213> Homo sapiens

<400> 6144

```
His Lys Arg Cys Leu Ile Phe Ile Gln Ala Ile Phe Ala His Ile His
 1               5                  10                  15

Gln Asn Gly Met Thr Gln Gly Lys Asn His Phe Ala Lys Gly Asn Lys
            20                  25                  30

Thr Ser Cys Arg Gln Leu Asp Thr Phe Arg Leu Phe Arg Lys Val Cys
        35                  40                  45

Thr Gly Thr Leu Ile Gly Ile Leu Leu Val Tyr Leu Leu Ser Tyr Phe
    50                  55                  60

Lys Val Val Ala Leu Ile Ile Val Val Ser Val Phe
65                  70                  75
```

<210> 6145
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6145

```
Trp Met Lys Met Arg Lys Thr Glu Pro Arg Glu Leu Leu Glu Thr Ser
 1               5                  10                  15

Leu Arg Lys Lys Arg Arg Asp Gln Phe Asn Val Leu Ile Lys Glu Leu
            20                  25                  30
```

```
Ser Ser Met Leu Pro Gly Asn Thr Arg Lys Met Asp Lys Thr Thr Val
         35                  40                  45

Leu Glu Lys Val Ile Gly Phe Leu Gln Lys His Asn Glu Val Ser Ala
     50                  55                  60

Gln Thr Glu Ile Cys Asp Ile Gln Gln Asp Trp Xaa Pro Ser Phe Leu
 65                  70                  75                  80

Ser Asn Glu Glu Phe Thr Gln Leu Met Leu Glu Ser His Phe Arg Asp
                 85                  90                  95

Cys Glu Glu Ser Arg Cys His Val Leu Val Ala Arg Met Phe Pro Phe
            100                 105                 110
```

<210> 6146
<211> 75
<212> PRT
<213> Homo sapiens

<400> 6146

```
Ser Phe Thr Pro Ala Asn Thr Ser Ile Leu Leu Ile Asn Gly Asn Ile
  1               5                  10                  15

Leu Met Cys His Phe Leu Ser Lys Gln Val Ser Tyr Thr Ala Pro Arg
             20                  25                  30

Gly Pro Arg Glu Ala Glu Ala Gln Thr Glu Gly Glu His Ser Leu Ala
         35                  40                  45

Gly Arg His Met Pro Gly Arg Met Thr Ile Gly Ile Ala Ser Ser Ile
     50                  55                  60

Asn Gln Leu Leu Lys Gly Phe Leu Ser Asp Ser
 65                  70                  75
```

<210> 6147
<211> 32
<212> PRT
<213> Homo sapiens

<400> 6147

```
Thr Leu Cys Val Gly Ser Trp Gln Ala Ala Met Ser Leu Gly Ile Ile
  1               5                  10                  15
```

Glu Ile Ile Asp Asp Thr Glu His Ser Tyr Ala Leu Ser Leu Tyr Ser
20 25 30

<210> 6148
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6148
Gln Asp Arg Lys Gly Asp Arg Xaa Arg Leu Tyr Leu Lys Lys Xaa Xaa
1 5 10 15

Thr Ile Leu Phe Leu Ile Leu Phe Asn Ser Ser Phe Leu Phe Phe Ser
20 25 30

Pro Trp Leu Leu Cys Ser Leu Ile Val Ile
35 40

<210> 6149
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6149
Asp Phe Phe Phe Lys Arg Thr Phe Lys Ile Met Ile Ser Asn Phe Asn
1 5 10 15

Cys Ile Tyr Arg Gly Phe Lys Glu Ser Leu Ile Ser Cys Thr Leu Leu

20 25 30

Arg Leu Ser Tyr Ser Phe Ser His Pro Arg Thr Gly Leu Pro Leu Arg
35 40 45

Glu Ala Asp Pro Leu Gln Val Ala Ile Thr Val Val Ala Ser Ser Ala
50 55 60

Ser Arg Leu Leu Gln Ser Arg Val Pro Phe
65 70

<210> 6150
<211> 35
<212> PRT
<213> Homo sapiens

<400> 6150
Leu Thr Leu Tyr Asp Met Cys Lys Ala Val Ser Arg Asp Ile Val Leu
1 5 10 15

Glu Glu Ile Lys Leu Ile Ser Lys Thr Gly Gly Gln Arg Gly Asp Phe
20 25 30

His Arg Ala
35

<210> 6151
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6151
Leu Ser Thr Glu Cys Asp Arg Tyr Cys Ser Lys His Phe Ile Cys Asn
1 5 10 15

Asp Leu Leu Leu Gln Asn Thr Pro Met Ser Asn Val Leu Leu Ser Pro
20 25 30

Tyr Leu Gln Leu Arg Lys Leu Gly Thr Glu Xaa Leu Ser Asn
35 40 45

<210> 6152
<211> 66
<212> PRT
<213> Homo sapiens

<400> 6152
Ala Lys Ile Lys Gly Leu Gln Lys His Ser Phe Leu Cys Cys Ser Leu
1 5 10 15

Leu Gly Phe Met Gln Arg Gln Phe Cys Val Asn Val Gln Leu Thr Leu
20 25 30

Ile Trp Lys Tyr Glu Asn Gln Ser Ile Leu Val Ile Lys Asn Phe Phe
35 40 45

Thr Ile Val Ile Ile Leu Met Phe Ile Leu Cys Lys Ile Thr His Leu
50 55 60

Ile Lys
65

<210> 6153
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6153
Gly Val Leu Gly Gln Xaa Val Thr Xaa Tyr Phe Ser Gln Pro Leu Xaa
1 5 10 15

Cys Asp Trp Arg Thr Leu Leu Phe Ser His Val Phe Leu Ile Met Pro
20 25 30

```
Glu Ser Pro Thr Pro Leu Leu Gly Arg Asp Ile Leu Gly Lys Ala Gly
         35                  40                  45

Ala Val Ile His
     50
```

<210> 6154
<211> 83
<212> PRT
<213> Homo sapiens

<400> 6154

```
Ser Val Trp Gly Ser Val Ser Phe Pro Gly Ser Trp His Ser Ser Gly
  1               5                  10                  15

Pro Leu Ser Leu Pro Leu Leu Gly Glu Gly Gly Lys Arg Glu Ile Pro
             20                  25                  30

Ser Ser Gln Pro Glu Arg Ala Glu Ala Asp Arg Ser Pro Leu Ala Leu
         35                  40                  45

Cys Ala Cys Val Arg Ala Ser Val Ser Leu Leu Val Gly Arg Ser Asp
     50                  55                  60

Val Val Gly Gly Lys Pro Gly Met Tyr Pro Phe Gln Thr Lys Leu Asn
 65                  70                  75                  80

Ile Leu Lys
```

<210> 6155
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6155

```
Glu Asn Ala Leu Gln Thr Phe Leu His Pro Thr Pro Pro Asn Ser Glu
```

```
  1               5                  10                  15

Ala Cys Trp Asp Pro Ser Ser Pro Ile Gly Ser Pro Gly Xaa Pro Ser
             20                  25                  30

Val Phe Thr Gln Ser Arg Pro Phe Phe Arg Ser Phe Pro Val Arg Gly
         35                  40                  45

Arg Tyr Thr Trp Thr Arg Ile Tyr Pro His Leu Thr Thr Leu Lys Ser
     50                  55                  60

Cys Phe Leu Pro Xaa Ile His Ile Leu Ser Ser Cys His Leu Pro Ile
 65                  70                  75                  80

Gln Leu His Ile Cys Leu Ile Ala Leu Phe Phe Ser Val His Leu Ser
                 85                  90                  95
```

<210> 6156
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6156

```
Leu Ala Ile Ser Phe Thr Lys Met Ser Ser Ala Ala Glu Asn Gly Glu
  1               5                  10                  15

Ala Ala Pro Gly Lys Gln Asn Glu Glu Lys Thr Tyr Lys Lys Thr Ala
             20                  25                  30

Ser Ser Ala Ile Lys Gly Ala Ile Gln Leu Gly Ile Gly Tyr Thr Val
         35                  40                  45

Gly Asn Leu Thr Ser Lys Pro Glu Pro Arg Cys Ser Tyr Ala Arg Leu
     50                  55                  60

Leu Cys Gly Gly Lys Cys Val Pro Thr Gln Arg Arg Glu Ala Ile Leu
 65                  70                  75                  80

Thr Pro Ala His His Tyr Pro Arg Leu
                 85
```

<210> 6157
<211> 36
<212> PRT

<213> Homo sapiens

<400> 6157
Thr Ala Cys Lys Ile Leu Tyr Met Arg Cys Cys Arg Tyr Arg Asn Glu
1 5 10 15

Phe Ser Val His Val Trp Leu Ile Phe Phe Val His Asp Phe Cys Met
20 25 30

Phe Pro Phe Gln
35

<210> 6158
<211> 387
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6158
Pro Ala Gln Arg Pro Pro Pro Ala Xaa Gly Ala Ser Arg Gly Pro Gly
1 5 10 15

Gln Thr Arg Cys Glu Met Glu Lys Tyr Leu Thr Pro Gln Leu Pro Pro
20 25 30

Val Pro Ile Ile Pro Glu His Lys Lys Tyr Arg Arg Asp Ser Ala Ser
35 40 45

Val Val Asp Gln Phe Phe Thr Asp Thr Glu Gly Leu Pro Tyr Ser Ile
50 55 60

Asn Met Asn Val Phe Leu Pro Asp Ile Thr His Leu Arg Thr Gly Leu
65 70 75 80

Tyr Lys Ser Gln Arg Pro Cys Val Thr His Ile Lys Thr Glu Pro Val
85 90 95

Ala Ile Phe Ser His Gln Ser Glu Thr Thr Ala Pro Pro Pro Ala Pro
100 105 110

Thr Gln Ala Leu Pro Glu Phe Thr Ser Ile Phe Ser Ser His Gln Thr
115 120 125

Ala Ala Pro Glu Val Asn Asn Ile Phe Ile Lys Gln Glu Leu Pro Thr
130 135 140

```
Pro Asp Leu His Leu Ser Val Pro Thr Gln Gln Gly His Leu Tyr Gln
145                 150                 155                 160

Leu Leu Asn Thr Pro Asp Leu Asp Met Pro Ser Ser Thr Asn Gln Thr
                165                 170                 175

Ala Ala Met Asp Thr Leu Asn Val Ser Met Ser Ala Ala Met Ala Gly
            180                 185                 190

Leu Asn Thr His Thr Ser Ala Val Pro Gln Thr Ala Val Lys Gln Phe
        195                 200                 205

Gln Gly Met Pro Pro Cys Thr Tyr Thr Met Pro Ser Gln Phe Leu Pro
    210                 215                 220

Gln Gln Ala Thr Tyr Phe Pro Pro Ser Pro Pro Ser Ser Glu Pro Gly
225                 230                 235                 240

Ser Pro Asp Arg Gln Ala Glu Met Leu Gln Asn Leu Thr Pro Pro Pro
                245                 250                 255

Ser Tyr Ala Ala Thr Ile Ala Ser Lys Leu Ala Ile His Asn Pro Asn
            260                 265                 270

Leu Pro Thr Thr Leu Pro Val Asn Ser Gln Asn Ile Gln Pro Val Arg
        275                 280                 285

Tyr Asn Arg Arg Ser Asn Pro Asp Leu Glu Lys Arg Arg Ile His Tyr
    290                 295                 300

Cys Asp Tyr Pro Gly Cys Thr Lys Val Tyr Thr Lys Ser Ser His Leu
305                 310                 315                 320

Lys Ala His Leu Arg Thr His Thr Gly Glu Lys Pro Tyr Lys Cys Thr
                325                 330                 335

Trp Glu Gly Cys Asp Trp Arg Phe Ala Arg Ser Asp Glu Leu Thr Arg
            340                 345                 350

His Tyr Arg Lys His Thr Gly Ala Lys Pro Phe Gln Cys Gly Val Cys
        355                 360                 365

Asn Arg Ser Phe Ser Arg Ser Asp His Leu Ala Leu His Met Lys Arg
    370                 375                 380

His Gln Asn
385
```

<210> 6159
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6159
Thr Gly Asn Ser Gln Ser Xaa Phe Thr His His Leu Pro Val Asn Ser
1 5 10 15

Gln Asn Xaa Gln Pro Val Arg Tyr Asn Arg Arg Ser Asn Pro Asp Leu
20 25 30

Glu Lys Arg Arg Ile His Tyr Cys Asp Tyr Pro Gly Cys Thr Lys Val
35 40 45

Tyr Thr Lys Ser Ser His Leu Lys Ala His Leu Arg Thr His Thr Gly
50 55 60

Glu Val Ile Ser Thr Arg Leu Phe Cys Phe Asn Leu Gln Lys Glu Gly
65 70 75 80

Val

<210> 6160
<211> 142
<212> PRT
<213> Homo sapiens

<400> 6160
Val Leu Pro Pro Leu Leu Ile Met Leu Val Ile Tyr Ile Lys Ile Phe
1 5 10 15

Leu Val Ala Cys Arg Gln Leu Gln Arg Thr Glu Leu Met Asp His Ser
20 25 30

Arg Thr Thr Leu Gln Arg Glu Ile His Ala Ala Lys Ser Leu Ala Met
35 40 45

```
Arg Cys Val Arg Thr Trp Ala Arg Ala Gly Arg Thr Ile Leu Ile Pro
            20                  25                  30

Leu Phe Pro Ala Tyr His Leu Cys Ser Pro Phe Ser Ser Leu Pro Phe
        35                  40                  45

Asn Cys Leu Leu Cys Phe Val Ser Tyr His Cys Cys Trp Cys Leu Glu
    50                  55                  60

Pro Ala Ser Ser Thr Trp Gln Thr Ser Arg Pro Cys Gly Gln Arg Leu
65                  70                  75                  80

Gly Leu His Ile Tyr Ile Ser Gln Met Ile Trp Val Asp Gly Asp Arg
                85                  90                  95
```

<210> 6163
<211> 53
<212> PRT
<213> Homo sapiens

<400> 6163

```
Ile Leu Cys Thr Arg Ile Pro Gly Arg Val Phe Tyr Pro Trp Lys Gln
  1               5                  10                  15

Val Ser Asp Tyr Phe Val Phe Thr Val Arg Val Ser Ser Leu Glu Met
            20                  25                  30

Leu Thr Leu Lys Ser Val Phe Phe Ser Leu Tyr Leu Lys Ile Val Asn
        35                  40                  45

Ile Leu Ile Ser Ser
    50
```

<210> 6164
<211> 105
<212> PRT
<213> Homo sapiens

<400> 6164

```
Ile Arg His Glu Gly Ala Gly Pro Ser Gln Leu Arg Leu His Tyr Pro
  1               5                  10                  15

Arg Ile Ser Met Ala Val Arg Gln Trp Val Ile Ala Leu Ala Leu Ala
```

```
            20                  25                  30

Ala Leu Leu Val Val Asp Arg Glu Val Pro Val Ala Ala Gly Lys Leu
         35                  40                  45

Pro Phe Ser Arg Met Pro Ile Cys Glu His Met Val Glu Ser Pro Thr
     50                  55                  60

Cys Ser Gln Met Ser Asn Leu Val Cys Gly Thr Asp Gly Leu Thr Tyr
 65                  70                  75                  80

Thr Asn Glu Cys Gln Leu Cys Leu Ala Arg Ile Lys Thr Lys Gln Asp
                 85                  90                  95

Ile Gln Ile Met Lys Asp Gly Lys Cys
            100                 105
```

<210> 6165
<211> 69
<212> PRT
<213> Homo sapiens

<400> 6165

```
His Arg Leu Asp Phe Leu Gln Leu Met Ile Asp Ser Gln Asn Ser Lys
  1               5                  10                  15

Glu Thr Glu Ser His Lys Ala Leu Ser Asp Leu Glu Leu Ala Ala Gln
             20                  25                  30

Ser Ile Ile Phe Ile Phe Ala Gly Tyr Glu Thr Thr Ser Ser Val Leu
         35                  40                  45

Ser Phe Thr Leu Tyr Glu Leu Ala Thr His Pro Asp Val Gln Gln Lys
     50                  55                  60

Leu Gln Lys Gly Asp
 65
```

<210> 6166
<211> 79
<212> PRT
<213> Homo sapiens

<400> 6166

```
His Arg Leu Asp Phe Leu Gln Leu Met Ile Asp Ser Gln Asn Ser Lys
  1               5                  10                  15
```

Val Val Xaa Leu Pro Gly Leu
115

<210> 6168
<211> 192
<212> PRT
<213> Homo sapiens

<400> 6168
Pro Glu Gln Arg Gly Ser Ser Met Ala His Gly Pro Gly Ala Leu Met
1 5 10 15

Leu Lys Cys Val Val Val Gly Asp Gly Ala Val Gly Lys Thr Cys Leu
20 25 30

Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu Ser Thr Cys Pro Pro
35 40 45

Ser Ser Thr Thr Thr Gln Glu Asp Tyr Asp Arg Leu Arg Pro Leu Ser
50 55 60

Tyr Pro Met Thr Asp Val Phe Leu Ile Cys Phe Ser Val Val Asn Pro
65 70 75 80

Ala Ser Phe Gln Asn Val Lys Glu Glu Trp Val Pro Glu Leu Lys Glu
85 90 95

Tyr Ala Pro Asn Val Pro Phe Leu Leu Ile Gly Thr Gln Ile Asp Leu
100 105 110

Arg Asp Asp Pro Lys Thr Leu Ala Arg Leu Asn Asp Met Lys Glu Lys
115 120 125

Pro Ile Cys Val Glu Gln Gly Gln Lys Leu Ala Lys Glu Ile Gly Ala
130 135 140

Cys Cys Tyr Val Glu Cys Ser Ala Leu Thr Gln Lys Gly Leu Lys Thr
145 150 155 160

Val Phe Asp Glu Ala Ile Ile Ala Ile Leu Thr Pro Lys Lys His Thr
165 170 175

Val Lys Lys Arg Ile Gly Ser Arg Cys Ile Asn Cys Cys Leu Ile Thr
180 185 190

<210> 6169
<211> 51
<212> PRT
<213> Homo sapiens

<400> 6169
Ala Lys Cys Arg Pro Val Cys Ser Cys Val Phe Phe Leu Trp Leu Pro
1 5 10 15

His Leu Phe His Leu Gln Leu Asp Pro Pro Leu Gln Ile Glu Asn Ser
20 25 30

Gly Gly Gly Trp Gly Leu Lys Ser Arg Glu Pro Pro Phe Cys Ser Thr
35 40 45

Asn Phe Thr
50

<210> 6170
<211> 353
<212> PRT
<213> Homo sapiens

<400> 6170
Arg Arg Arg Ser Val Leu Pro Val Thr Ala Ala Ala Ala Ala Ala Pro
1 5 10 15

Asp Thr Cys Gly Gly Gly Gly Asp Pro Ala Ala Gly Ala Glu Met Trp
20 25 30

Pro Leu Val Ala Ala Leu Leu Leu Gly Ser Ala Cys Cys Gly Ser Ala
35 40 45

Gln Leu Leu Phe Asn Lys Thr Lys Ser Val Glu Phe Thr Phe Cys Asn
50 55 60

Asp Thr Val Val Ile Pro Cys Phe Val Thr Asn Met Glu Ala Gln Asn
65 70 75 80

Thr Thr Glu Val Tyr Val Lys Trp Lys Phe Lys Gly Arg Asp Ile Tyr
85 90 95

Thr Phe Asp Gly Ala Leu Asn Lys Ser Thr Val Pro Thr Asp Phe Ser
100 105 110

Ser Ala Lys Ile Glu Val Ser Gln Leu Leu Lys Gly Asp Ala Ser Leu
115 120 125

```
Lys Met Asp Lys Ser Asp Ala Val Ser His Thr Gly Asn Tyr Thr Cys
    130                 135                 140

Glu Val Thr Glu Leu Thr Arg Glu Gly Glu Thr Ile Ile Glu Leu Lys
145                 150                 155                 160

Tyr Arg Val Val Ser Trp Phe Ser Pro Asn Glu Asn Ile Leu Ile Val
                165                 170                 175

Ile Phe Pro Ile Phe Ala Ile Leu Leu Phe Trp Gly Gln Phe Gly Ile
            180                 185                 190

Lys Thr Leu Lys Tyr Arg Ser Gly Gly Met Asp Glu Lys Thr Ile Ala
        195                 200                 205

Leu Leu Val Ala Gly Leu Val Ile Thr Val Ile Val Ile Val Gly Ala
    210                 215                 220

Ile Leu Phe Val Pro Gly Glu Tyr Ser Leu Lys Asn Ala Thr Gly Leu
225                 230                 235                 240

Gly Leu Ile Val Thr Ser Thr Gly Ile Leu Ile Leu Leu His Tyr Tyr
                245                 250                 255

Val Phe Ser Thr Ala Ile Gly Leu Thr Ser Phe Val Ile Ala Ile Leu
            260                 265                 270

Val Ile Gln Val Ile Ala Tyr Ile Leu Ala Val Val Gly Leu Ser Leu
        275                 280                 285

Cys Ile Ala Ala Cys Ile Pro Met His Gly Pro Leu Leu Ile Ser Gly
    290                 295                 300

Leu Ser Ile Leu Ala Leu Ala Gln Leu Leu Gly Leu Val Tyr Met Lys
305                 310                 315                 320

Phe Val Ala Ser Asn Gln Lys Thr Ile Gln Pro Pro Arg Lys Ala Val
                325                 330                 335

Glu Glu Pro Leu Asn Ala Phe Lys Glu Ser Lys Gly Met Met Asn Asp
            340                 345                 350

Glu
```

<210> 6171
<211> 358
<212> PRT
<213> Homo sapiens

<400> 6171

```
Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
  1               5                  10                  15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Gly Trp Ala Leu
             20                  25                  30

Arg Ile Ser Arg Phe Leu Pro Gly Phe His Ser Phe Ala Pro Cys Thr
         35                  40                  45

Val Ala Pro Ser Leu Arg Ala Gln Pro Ala Lys Gln Arg Ala Pro Val
     50                  55                  60

Ala Gly Val Met Gln Arg Ala Arg Pro Thr Leu Trp Ala Ala Ala Leu
 65                  70                  75                  80

Thr Leu Leu Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala
                 85                  90                  95

Ser Ser Ala Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala
            100                 105                 110

Arg Ala Leu Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu
        115                 120                 125

Val Arg Glu Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu
    130                 135                 140

Gly Gln Pro Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg
145                 150                 155                 160

Cys Gln Pro Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp
                165                 170                 175

Gly Arg Gly Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala
            180                 185                 190

Tyr Leu Leu Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu
        195                 200                 205

Glu Asp Arg Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr
    210                 215                 220

His Arg Val Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile
225                 230                 235                 240

Ile Ile Lys Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp
                245                 250                 255

Tyr Glu Ser Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys
```

```
           260                 265                 270

Arg Glu Thr Glu Tyr Gly Pro Cys Arg Arg Glu Met Glu Asp Thr Leu
        275                 280                 285

Asn His Leu Lys Phe Leu Asn Val Leu Ser Pro Arg Gly Val His Ile
    290                 295                 300

Pro Asn Cys Asp Lys Lys Gly Phe Tyr Lys Lys Lys Gln Cys Arg Pro
305                 310                 315                 320

Ser Lys Gly Arg Lys Arg Gly Phe Cys Trp Cys Val Asp Lys Tyr Gly
                325                 330                 335

Gln Pro Leu Pro Gly Tyr Thr Thr Lys Gly Lys Glu Asp Val His Cys
            340                 345                 350

Tyr Ser Met Gln Ser Lys
        355
```

<210> 6172
<211> 140
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (104)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (134)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6172
Gln Arg Ile Pro Asp Pro Ala Arg Glu Gly Ser Arg Thr Met Glu Ser
1 5 10 15

Ser Ser Ser Ser Asn Ser Tyr Phe Ser Val Gly Pro Thr Ser Pro Ser
20 25 30

Ala Val Val Leu Leu Tyr Ser Lys Glu Leu Lys Lys Trp Asp Glu Phe
35 40 45

Glu Asp Ile Leu Glu Glu Arg Arg His Val Ser Asp Leu Lys Phe Ala
50 55 60

Met Lys Cys Tyr Thr Pro Leu Val Tyr Lys Gly Ile Thr Pro Cys Lys
65 70 75 80

Pro Ile Asp Ile Lys Cys Ser Val Leu Asn Ser Glu Xaa Ile His Tyr
85 90 95

Val Ile Lys Gln Xaa Ser Lys Xaa Ser Leu Gln Ser Val Gly Val Pro
100 105 110

Pro Arg Lys Leu Val Gly Phe Arg Trp Asn Gly Ser Gln Xaa Gly Phe
115 120 125

Gly Pro Phe Gly Leu Xaa Leu Xaa Xaa Ala Ser Phe
130 135 140

<210> 6173
<211> 229
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (165)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6173

```
Val Pro Gly Ala Glu Gly Gly Gly Thr Gly Leu Asp Val Gly Arg Pro
  1               5                  10                  15

Ala Met Lys Pro Pro Ser Ser Ile Gln Thr Ser Glu Phe Asp Ser Ser
             20                  25                  30

Asp Glu Glu Pro Ile Glu Asp Glu Gln Thr Pro Ile His Ile Ser Trp
         35                  40                  45

Leu Ser Leu Ser Arg Val Asn Cys Ser Gln Phe Leu Gly Leu Cys Ala
     50                  55                  60

Leu Pro Gly Cys Lys Phe Lys Asp Val Arg Arg Asn Val Gln Lys Asp
 65                  70                  75                  80

Thr Glu Glu Leu Lys Ser Cys Gly Ile Gln Asp Ile Phe Val Phe Cys
                 85                  90                  95

Thr Arg Gly Glu Leu Ser Lys Tyr Arg Val Pro Asn Leu Leu Asp Leu
            100                 105                 110

Tyr Gln Gln Cys Gly Ile Ile Thr His His His Pro Ile Ala Asp Gly
        115                 120                 125

Gly Thr Pro Asp Ile Ala Ser Cys Cys Glu Ile Met Glu Glu Leu Thr
    130                 135                 140

Thr Cys Leu Lys Asn Tyr Arg Lys Thr Leu Ile His Cys Tyr Gly Gly
145                 150                 155                 160

Leu Gly Arg Ser Xaa Leu Val Ala Ala Xaa Leu Leu Leu Tyr Leu Ser
                165                 170                 175

Asp Thr Ile Ser Pro Glu Gln Ala Ile Asp Ser Leu Arg Asp Leu Arg
            180                 185                 190

Gly Ser Gly Ala Ile Gln Thr Ile Lys Gln Tyr Asn Tyr Leu His Glu
        195                 200                 205

Phe Arg Asp Lys Leu Ala Ala His Leu Ser Ser Arg Asp Ser Gln Ser
    210                 215                 220

Arg Ser Val Ser Arg
225
```

<210> 6174
<211> 183
<212> PRT
<213> Homo sapiens

<400> 6174
Ser Arg Leu Ser Leu Ser Arg Val Asn Cys Ser Gln Phe Leu Gly Leu
1 5 10 15

Cys Ala Leu Pro Gly Cys Lys Phe Lys Asp Val Arg Arg Asn Val Gln
20 25 30

Lys Asp Thr Glu Glu Leu Lys Ser Cys Gly Ile Gln Asp Ile Phe Val
35 40 45

Phe Cys Thr Arg Gly Glu Leu Ser Lys Tyr Arg Val Pro Asn Leu Leu
50 55 60

Asp Leu Tyr Gln Gln Cys Gly Ile Ile Thr His His His Pro Ile Ala
65 70 75 80

Asp Gly Gly Thr Pro Asp Ile Ala Ser Cys Cys Glu Ile Met Glu Glu
85 90 95

Leu Thr Thr Cys Leu Lys Asn Tyr Arg Lys Thr Leu Ile His Cys Tyr
100 105 110

Gly Gly Leu Gly Arg Ser Cys Leu Val Ala Ala Cys Leu Leu Leu Tyr
115 120 125

Leu Ser Asp Thr Ile Ser Pro Glu Gln Ala Ile Asp Ser Leu Arg Asp
130 135 140

Leu Arg Gly Ser Gly Ala Ile Gln Thr Ile Lys Gln Tyr Asn Tyr Leu
145 150 155 160

His Glu Phe Arg Asp Lys Leu Ala Ala His Leu Ser Ser Arg Asp Ser
165 170 175

Gln Ser Arg Ser Val Ser Arg
180

<210> 6175
<211> 594
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6175

```
Arg Arg Arg Ala Ala Val Glu Glu Lys Arg Arg Gln Arg Leu Glu Glu
  1               5                  10                  15

Asp Lys Glu Arg His Glu Ala Val Val Arg Arg Thr Met Glu Arg Ser
             20                  25                  30

Gln Lys Pro Lys Gln Lys His Asn Arg Trp Ser Trp Gly Gly Ser Leu
         35                  40                  45

His Gly Ser Pro Ser Ile His Ser Ala Ala Arg Arg Leu Gln Leu Ser
     50                  55                  60

Pro Trp Glu Ser Ser Val Val Asn Arg Leu Leu Thr Pro Thr His Ser
 65                  70                  75                  80

Phe Leu Ala Arg Ser Lys Ser Thr Ala Ala Leu Ser Gly Glu Ala Ala
                 85                  90                  95

Ser Cys Ser Pro Ile Ile Met Pro Tyr Lys Ala Ala His Ser Arg Asn
            100                 105                 110

Ser Met Asp Arg Pro Lys Leu Phe Val Thr Pro Pro Glu Gly Ser Ser
        115                 120                 125

Arg Arg Arg Ile Ile His Gly Thr Ala Ser Tyr Lys Lys Glu Arg Glu
    130                 135                 140

Arg Glu Asn Xaa Leu Phe Leu Thr Ser Gly Thr Arg Arg Ala Val Ser
145                 150                 155                 160

Pro Ser Asn Pro Lys Ala Arg Gln Pro Ala Arg Ser Arg Leu Trp Leu
                165                 170                 175

Pro Ser Lys Ser Leu Pro His Leu Pro Gly Thr Pro Arg Pro Thr Ser
            180                 185                 190

Ser Leu Pro Pro Gly Ser Val Lys Ala Ala Pro Ala Gln Val Arg Pro
        195                 200                 205

Pro Ser Pro Gly Asn Ile Arg Pro Val Lys Arg Glu Val Lys Val Glu
    210                 215                 220

Pro Glu Lys Lys Asp Pro Glu Lys Glu Pro Gln Lys Val Ala Asn Glu
225                 230                 235                 240
```

```
Pro Ser Leu Lys Gly Arg Ala Pro Leu Val Lys Val Glu Glu Ala Thr
               245                 250                 255

Val Glu Glu Arg Thr Pro Ala Glu Pro Glu Val Gly Pro Ala Ala Pro
            260                 265                 270

Ala Met Ala Pro Ala Pro Ala Ser Ala Pro Ala Pro Ala Ser Ala Pro
        275                 280                 285

Ala Pro Ala Pro Val Pro Thr Pro Ala Met Val Ser Ala Pro Ser Ser
    290                 295                 300

Thr Val Asn Ala Ser Ala Ser Val Lys Thr Ser Ala Gly Thr Thr Asp
305                 310                 315                 320

Pro Glu Glu Ala Thr Arg Leu Leu Ala Glu Lys Arg Arg Leu Ala Arg
               325                 330                 335

Glu Gln Arg Glu Lys Glu Glu Arg Glu Arg Arg Glu Gln Glu Glu Leu
            340                 345                 350

Glu Arg Gln Lys Arg Glu Glu Leu Ala Gln Arg Val Ala Glu Glu Arg
        355                 360                 365

Thr Thr Arg Arg Glu Glu Glu Ser Arg Arg Leu Glu Ala Glu Gln Ala
    370                 375                 380

Arg Glu Lys Glu Glu Gln Leu Gln Arg Gln Ala Glu Glu Arg Ala Leu
385                 390                 395                 400

Arg Glu Trp Glu Glu Ala Glu Arg Ala Gln Arg Gln Lys Glu Glu Glu
               405                 410                 415

Ala Arg Val Arg Glu Glu Ala Glu Arg Val Arg Gln Glu Arg Glu Lys
            420                 425                 430

His Phe Gln Arg Glu Glu Gln Glu Arg Leu Glu Arg Lys Lys Arg Leu
        435                 440                 445

Glu Glu Ile Met Lys Arg Thr Arg Arg Thr Glu Ala Thr Asp Lys Lys
    450                 455                 460

Thr Ser Asp Gln Arg Asn Gly Asp Ile Ala Lys Gly Ala Leu Thr Gly
465                 470                 475                 480

Gly Thr Glu Val Ser Ala Leu Pro Cys Thr Thr Asn Ala Pro Gly Asn
               485                 490                 495

Gly Lys Pro Val Gly Ser Pro His Val Val Thr Ser His Gln Ser Lys
            500                 505                 510
```

```
Val Thr Val Glu Ser Thr Pro Asp Leu Glu Lys Gln Pro Asn Glu Asn
        515                 520                 525

Gly Val Ser Val Gln Asn Glu Asn Phe Glu Glu Ile Ile Asn Leu Pro
    530                 535                 540

Ile Gly Ser Lys Pro Ser Arg Leu Asp Val Thr Asn Ser Glu Ser Pro
545                 550                 555                 560

Glu Ile Pro Leu Asn Pro Ile Leu Ala Phe Asp Asp Glu Gly Thr Leu
                565                 570                 575

Gly Pro Leu Pro Gln Val Asp Gly Val Gln Thr Gln Gln Thr Ala Glu
            580                 585                 590

Val Ile
```

<210> 6176
<211> 293
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (270)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (280)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6176

```
Asn Thr Cys Glu Ser Asn His Gly Leu Gly Thr Thr Pro Pro Glu Asn
  1               5                  10                  15

Gly Leu Ser Glu His Pro Cys Glu Thr Glu Gln Ile Asn Ala Lys Arg
             20                  25                  30

Lys Asp Thr Thr Ser Asp Lys Asp Asp Ser Leu Gly Ser Gln Gln Thr
         35                  40                  45

Asn Glu Gln Cys Ala Gln Lys Ala Glu Pro Thr Glu Ser Cys Glu Gln
     50                  55                  60

Ile Ala Val Gln Val Asn Asn Gly Asp Ala Gly Arg Glu Met Pro Cys
 65                  70                  75                  80
```

```
Pro Leu Pro Cys Asp Glu Glu Ser Pro Glu Ala Glu Leu His Asn His
                 85                  90                  95

Gly Ile Gln Ile Asn Ser Cys Ser Val Arg Leu Val Asp Ile Lys Lys
            100                 105                 110

Glu Lys Pro Phe Ser Asn Ser Lys Val Glu Cys Gln Ala Gln Ala Arg
        115                 120                 125

Thr His His Asn Gln Ala Ser Asp Ile Ile Val Ile Ser Ser Glu Asp
    130                 135                 140

Ser Glu Gly Ser Thr Asp Val Asp Glu Pro Leu Glu Val Phe Ile Ser
145                 150                 155                 160

Ala Pro Arg Ser Glu Pro Val Ile Asn Asn Asp Asn Pro Leu Glu Ser
                165                 170                 175

Asn Asp Glu Lys Glu Gly Gln Glu Ala Thr Cys Ser Arg Pro Gln Ile
            180                 185                 190

Val Pro Glu Pro Met Asp Phe Arg Lys Leu Ser Thr Phe Arg Glu Ser
        195                 200                 205

Phe Lys Lys Arg Val Ile Gly Gln Asp His Asp Phe Ser Glu Ser Ser
    210                 215                 220

Glu Glu Glu Ala Pro Ala Glu Ala Ser Ser Gly Ala Leu Arg Ser Lys
225                 230                 235                 240

His Gly Glu Lys Ala Pro Met Thr Ser Arg Ser Thr Ser Thr Trp Arg
                245                 250                 255

Ile Pro Ser Arg Lys Arg Arg Phe Ser Ser Ser Asp Phe Xaa Asp Leu
            260                 265                 270

Ser Asn Lys Cys Leu Tyr Leu Xaa Gln Lys Leu His Ser Leu Phe Ile
        275                 280                 285

Leu Lys Asp Ile Thr
    290
```

<210> 6177
<211> 720
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (693)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6177

```
Asp Thr Gly Pro Thr Gly Ile Lys Tyr Asp Leu Asp Arg His Gln Tyr
  1               5                  10                  15

Asn Tyr Val Asp Ala Val Cys Tyr Glu Asn Arg Leu His Trp Phe Ala
             20                  25                  30

Lys Tyr Phe Pro Tyr Leu Val Leu Leu His Thr Leu Ile Phe Leu Ala
         35                  40                  45

Cys Ser Asn Phe Trp Phe Lys Phe Pro Arg Thr Ser Ser Lys Leu Glu
     50                  55                  60

His Phe Val Ser Ile Leu Leu Lys Cys Phe Asp Ser Pro Trp Thr Thr
 65                  70                  75                  80

Arg Ala Leu Ser Glu Thr Val Val Glu Glu Ser Asp Pro Lys Pro Ala
                 85                  90                  95

Phe Ser Lys Met Asn Gly Ser Met Asp Lys Lys Ser Ser Thr Val Ser
            100                 105                 110

Glu Asp Val Glu Ala Thr Val Pro Met Leu Gln Arg Thr Lys Ser Arg
        115                 120                 125

Ile Glu Gln Gly Ile Val Asp Arg Ser Glu Thr Gly Val Leu Asp Lys
    130                 135                 140

Lys Glu Gly Glu Gln Ala Lys Ala Leu Phe Glu Lys Val Lys Lys Phe
145                 150                 155                 160

Arg Thr His Val Glu Glu Gly Asp Ile Val Tyr Arg Leu Tyr Met Arg
                165                 170                 175

Gln Thr Ile Ile Lys Val Ile Lys Phe Ile Leu Ile Ile Cys Tyr Thr
            180                 185                 190

Val Tyr Tyr Val His Asn Ile Lys Phe Asp Val Asp Cys Thr Val Asp
        195                 200                 205

Ile Glu Ser Leu Thr Gly Tyr Arg Thr Tyr Arg Cys Ala His Pro Leu
    210                 215                 220

Ala Thr Leu Phe Lys Ile Leu Ala Ser Phe Tyr Ile Ser Leu Val Ile
225                 230                 235                 240

Phe Tyr Gly Leu Ile Cys Met Tyr Thr Leu Trp Trp Met Leu Arg Arg
                245                 250                 255
```

```
Ser Leu Lys Lys Tyr Ser Phe Glu Ser Ile Arg Glu Glu Ser Ser Tyr
            260                 265                 270

Ser Asp Ile Pro Asp Val Lys Asn Asp Phe Ala Phe Met Leu His Leu
        275                 280                 285

Ile Asp Gln Tyr Asp Pro Leu Tyr Ser Lys Arg Phe Ala Val Phe Leu
    290                 295                 300

Ser Glu Val Ser Glu Asn Lys Leu Arg Gln Leu Asn Leu Asn Asn Glu
305                 310                 315                 320

Trp Thr Leu Asp Lys Leu Arg Gln Arg Leu Thr Lys Asn Ala Gln Asp
                325                 330                 335

Lys Leu Glu Leu His Leu Phe Met Leu Ser Gly Ile Pro Asp Thr Val
            340                 345                 350

Phe Asp Leu Val Glu Leu Glu Val Leu Lys Leu Glu Leu Ile Pro Asp
        355                 360                 365

Val Thr Ile Pro Pro Ser Ile Ala Gln Leu Thr Gly Leu Lys Glu Leu
    370                 375                 380

Trp Leu Tyr His Thr Ala Ala Lys Ile Glu Ala Pro Ala Leu Ala Phe
385                 390                 395                 400

Leu Arg Glu Asn Leu Arg Ala Leu His Ile Lys Phe Thr Asp Ile Lys
                405                 410                 415

Glu Ile Pro Leu Trp Ile Tyr Ser Leu Lys Thr Leu Glu Glu Leu His
            420                 425                 430

Leu Thr Gly Asn Leu Ser Ala Glu Asn Asn Arg Tyr Ile Val Ile Asp
        435                 440                 445

Gly Leu Arg Glu Leu Lys Arg Leu Lys Val Leu Arg Leu Lys Ser Asn
    450                 455                 460

Leu Ser Lys Leu Pro Gln Val Val Thr Asp Val Gly Val His Leu Gln
465                 470                 475                 480

Lys Leu Ser Ile Asn Asn Glu Gly Thr Lys Leu Ile Val Leu Asn Ser
                485                 490                 495

Leu Lys Lys Met Ala Asn Leu Thr Glu Leu Glu Leu Ile Arg Cys Asp
            500                 505                 510

Leu Glu Arg Ile Pro His Ser Ile Phe Ser Leu His Asn Leu Gln Glu
        515                 520                 525
```

```
Ile Asp Leu Lys Asp Asn Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser
    530                 535                 540

Phe Gln His Leu His Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His
545                 550                 555                 560

Ile Ala Tyr Ile Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg
                565                 570                 575

Leu Tyr Leu Asn Arg Asn Lys Ile Glu Lys Ile Pro Thr Gln Leu Phe
            580                 585                 590

Tyr Cys Arg Lys Leu Arg Tyr Leu Asp Leu Ser His Asn Asn Leu Thr
        595                 600                 605

Phe Leu Pro Ala Asp Ile Gly Leu Leu Gln Asn Leu Gln Asn Leu Ala
    610                 615                 620

Ile Thr Ala Asn Arg Ile Glu Thr Leu Pro Pro Glu Leu Phe Gln Cys
625                 630                 635                 640

Arg Lys Leu Arg Ala Leu His Leu Gly Asn Asn Val Leu Gln Ser Leu
                645                 650                 655

Pro Ser Arg Val Gly Glu Leu Thr Asn Leu Thr Gln Ile Glu Leu Arg
            660                 665                 670

Gly Asn Arg Leu Glu Cys Leu Pro Val Glu Leu Gly Glu Cys Pro Leu
        675                 680                 685

Leu Lys Arg Ser Xaa Leu Val Val Glu Glu Asp Leu Phe Asn Thr Leu
    690                 695                 700

Pro Pro Glu Val Lys Glu Arg Leu Trp Arg Ala Asp Lys Glu Gln Ala
705                 710                 715                 720
```

<210> 6178
<211> 27
<212> PRT
<213> Homo sapiens

<400> 6178

```
Val Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Asp Gly Pro
  1               5                  10                  15
```

```
Pro Gln Ser Pro Pro Asn Ile Tyr Tyr Lys Val
            20                  25
```

<210> 6179
<211> 154
<212> PRT
<213> Homo sapiens

<400> 6179

```
Asp Leu Cys Arg Leu Ser Cys Gly Arg Lys Met Pro Lys Val Lys Arg
  1               5                  10                  15

Ser Arg Lys Ala Pro Pro Asp Gly Trp Glu Leu Ile Glu Pro Thr Leu
            20                  25                  30

Asp Glu Leu Asp Gln Lys Met Arg Glu Ala Glu Thr Glu Pro His Glu
        35                  40                  45

Gly Lys Arg Lys Val Glu Ser Leu Trp Pro Ile Phe Arg Ile His His
    50                  55                  60

Gln Lys Thr Arg Tyr Ile Phe Asp Leu Phe Tyr Lys Arg Lys Ala Ile
65                  70                  75                  80

Ser Arg Glu Leu Tyr Glu Tyr Cys Ile Lys Glu Gly Tyr Ala Asp Lys
                85                  90                  95

Asn Leu Ile Ala Lys Trp Lys Lys Gln Gly Tyr Glu Asn Leu Cys Cys
            100                 105                 110

Leu Arg Cys Ile Gln Thr Arg Asp Thr Asn Phe Gly Thr Asn Cys Ile
        115                 120                 125

Cys Arg Val Pro Lys Ser Lys Leu Glu Val Gly Arg Ile Ile Glu Cys
    130                 135                 140

Thr His Cys Gly Cys Arg Gly Cys Ser Gly
145                 150
```

<210> 6180
<211> 442
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6180

```
Leu Glu Gln Glu Leu Gly Asp Gly Trp Gly His Ser Asp Leu His Lys
  1               5                  10                  15

Ala Leu Leu Cys Arg Xaa Pro Pro Leu Pro Glu Pro Asp Ala Met Ser
             20                  25                  30

Ser Lys Gly Ser Val Val Leu Ala Tyr Ser Gly Gly Leu Asp Thr Ser
         35                  40                  45

Cys Ile Leu Val Trp Leu Lys Glu Gln Gly Tyr Asp Val Ile Ala Tyr
     50                  55                  60

Leu Ala Asn Ile Gly Gln Lys Glu Asp Phe Glu Glu Ala Arg Lys Lys
 65                  70                  75                  80

Ala Leu Lys Leu Gly Ala Lys Lys Val Phe Ile Glu Asp Val Ser Arg
                 85                  90                  95

Glu Phe Val Glu Glu Phe Ile Trp Pro Ala Ile Gln Ser Ser Ala Leu
            100                 105                 110

Tyr Glu Asp Arg Tyr Leu Leu Gly Thr Ser Leu Ala Arg Pro Cys Ile
        115                 120                 125

Ala Arg Lys Gln Val Glu Ile Ala Gln Arg Glu Gly Ala Lys Tyr Val
    130                 135                 140

Ser His Gly Ala Thr Gly Lys Gly Asn Asp Gln Val Arg Phe Glu Leu
145                 150                 155                 160

Ser Cys Tyr Ser Leu Ala Pro Gln Ile Lys Val Ile Ala Pro Trp Arg
                165                 170                 175

Met Pro Glu Phe Tyr Asn Arg Phe Lys Gly Arg Asn Asp Leu Met Glu
            180                 185                 190

Tyr Ala Lys Gln His Gly Ile Pro Ile Pro Val Thr Pro Lys Asn Pro
        195                 200                 205

Trp Ser Met Asp Glu Asn Leu Met His Ile Ser Tyr Glu Ala Gly Ile
    210                 215                 220

Leu Glu Asn Pro Lys Asn Gln Ala Pro Pro Gly Leu Tyr Thr Lys Thr
225                 230                 235                 240

Gln Asp Pro Ala Lys Ala Pro Asn Thr Pro Asp Ile Leu Glu Ile Glu
                245                 250                 255
```

```
Phe Lys Lys Gly Val Pro Val Lys Val Thr Asn Val Lys Asp Gly Thr
            260                 265                 270

Thr His Gln Thr Ser Leu Glu Leu Phe Met Tyr Leu Asn Glu Val Ala
        275                 280                 285

Gly Lys His Gly Val Gly Arg Ile Asp Ile Val Glu Asn Arg Phe Ile
    290                 295                 300

Gly Met Lys Ser Arg Gly Ile Tyr Glu Thr Pro Ala Gly Thr Ile Leu
305                 310                 315                 320

Tyr His Ala His Leu Asp Ile Glu Ala Phe Thr Met Asp Arg Glu Val
                325                 330                 335

Arg Lys Ile Lys Gln Gly Leu Gly Leu Lys Phe Ala Glu Leu Val Tyr
            340                 345                 350

Thr Gly Phe Trp His Ser Pro Glu Cys Glu Phe Val Arg His Cys Ile
        355                 360                 365

Ala Lys Ser Gln Glu Arg Val Glu Gly Lys Val Gln Val Ser Val Leu
    370                 375                 380

Lys Gly Gln Val Tyr Ile Leu Gly Arg Glu Ser Pro Leu Ser Leu Tyr
385                 390                 395                 400

Asn Glu Glu Leu Val Ser Met Asn Val Gln Gly Asp Tyr Glu Pro Thr
                405                 410                 415

Asp Ala Thr Gly Phe Ile Asn Ile Asn Ser Leu Arg Leu Lys Glu Tyr
            420                 425                 430

His Arg Leu Gln Ser Lys Val Thr Ala Lys
        435                 440
```

<210> 6181
<211> 155
<212> PRT
<213> Homo sapiens

<400> 6181

```
Asp Ser Tyr Phe Asp Arg Ile Cys Ser His Ser Ser Cys Lys Leu Gln
  1               5                  10                  15

Met Tyr Lys Leu His Leu Tyr Phe Tyr Arg Val Val Met Phe Tyr Met
             20                  25                  30

Cys Met Val Gln Glu Lys Ile Gly Ser Asn Gln Ser Ala Val Asp Val
```

```
         35                  40                  45

Pro Lys Cys Lys His Arg His Thr His Ala His Thr His Lys His Thr
     50                  55                  60

His Ser Ala Leu Arg Lys Gly Gln Val Ile Ser His Pro Asn Phe Thr
 65                  70                  75                  80

Ser Thr Asp Pro Leu Ala Pro Thr Pro Ala Ser Thr Val Thr Ser Lys
                 85                  90                  95

Ala Arg Ala Thr Cys Ala His Gln Thr Cys Ile Lys Gln Leu Ala Gly
            100                 105                 110

Asp Gly Cys Gly Ala Gly Gly Leu Ser Asp Gly Ser Leu Leu Leu Pro
        115                 120                 125

Leu Leu Arg Val Lys Leu Leu Ser Phe Leu Arg Val Tyr Leu Cys Gln
    130                 135                 140

Val Cys Ala Phe Asn Cys Phe Tyr Phe Val Phe
145                 150                 155
```

<210> 6182
<211> 401
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (309)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (311)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (377)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6182

```
Asn Ile Lys Lys Arg Asp Glu Glu Leu Thr Glu Lys Met Lys Lys Ala
  1               5                  10                  15

Glu Glu Glu Tyr Lys Leu Glu Lys Glu Glu Glu Ile Ser Asn Leu Lys
             20                  25                  30
```

```
Ala Ala Phe Glu Lys Asn Ile Asn Thr Glu Arg Thr Leu Lys Thr Gln
         35                  40                  45

Ala Val Asn Lys Leu Ala Glu Ile Met Asn Arg Lys Asp Phe Lys Ile
     50                  55                  60

Asp Arg Lys Lys Ala Asn Thr Gln Asp Leu Arg Lys Lys Glu Lys Glu
 65                  70                  75                  80

Asn Arg Lys Leu Gln Leu Glu Leu Asn Gln Glu Arg Glu Lys Phe Asn
                 85                  90                  95

Gln Met Val Val Lys His Gln Lys Glu Leu Asn Asp Met Gln Ala Gln
            100                 105                 110

Leu Val Glu Glu Cys Ala His Arg Asn Glu Leu Gln Met Gln Leu Ala
        115                 120                 125

Ser Lys Glu Ser Asp Ile Glu Gln Leu Arg Ala Lys Leu Leu Asp Leu
    130                 135                 140

Ser Asp Ser Thr Ser Val Ala Ser Phe Pro Ser Ala Asp Glu Thr Asp
145                 150                 155                 160

Gly Asn Leu Pro Glu Ser Arg Ile Glu Gly Trp Leu Ser Val Pro Asn
                165                 170                 175

Arg Gly Asn Ile Lys Arg Tyr Gly Trp Lys Lys Gln Tyr Val Val Val
            180                 185                 190

Ser Ser Lys Lys Ile Leu Phe Tyr Asn Asp Glu Gln Asp Lys Glu Gln
        195                 200                 205

Ser Asn Pro Ser Met Val Leu Asp Ile Asp Lys Leu Phe His Val Arg
    210                 215                 220

Pro Val Thr Gln Gly Asp Val Tyr Arg Ala Glu Thr Glu Glu Ile Pro
225                 230                 235                 240

Lys Ile Phe Gln Ile Leu Tyr Ala Asn Glu Gly Glu Cys Arg Lys Asp
                245                 250                 255

Val Glu Met Glu Pro Val Gln Gln Ala Glu Lys Thr Asn Phe Gln Asn
            260                 265                 270

His Lys Gly His Glu Phe Ile Pro Thr Leu Tyr His Phe Pro Ala Asn
        275                 280                 285

Cys Asp Ala Cys Ala Lys Pro Leu Trp His Val Phe Lys Pro Pro Pro
    290                 295                 300
```

```
Ala Leu Glu Cys Xaa Arg Xaa His Val Lys Cys His Arg Asp His Leu
305                 310                 315                 320

Asp Lys Lys Glu Asp Leu Ile Cys Pro Cys Lys Val Ser Tyr Asp Val
                325                 330                 335

Thr Ser Ala Arg Asp Met Leu Leu Leu Ala Cys Ser Gln Asp Glu Gln
            340                 345                 350

Lys Lys Trp Val Thr His Leu Val Lys Lys Ile Pro Lys Asn Pro Pro
        355                 360                 365

Ser Gly Phe Val Arg Ala Ser Pro Xaa Thr Leu Ser Thr Arg Ser Thr
    370                 375                 380

Ala Asn Gln Ser Phe Arg Lys Val Val Lys Asn Thr Ser Gly Lys Thr
385                 390                 395                 400

Ser
```

<210> 6183
<211> 337
<212> PRT
<213> Homo sapiens

<400> 6183

```
Gln Ser Arg Ser Asp Ser Arg Val Asp Pro Arg Val Arg Gly Pro Pro
  1               5                  10                  15

Gly Pro Val Gly Pro Ser Gly Lys Glu Gly Asn Pro Gly Pro Leu Gly
             20                  25                  30

Pro Ile Gly Pro Pro Gly Val Arg Gly Ser Val Gly Glu Ala Gly Pro
         35                  40                  45

Glu Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
     50                  55                  60

Gly His Leu Thr Ala Ala Leu Gly Asp Ile Met Gly His Tyr Asp Glu
 65                  70                  75                  80

Ser Met Pro Asp Pro Leu Pro Glu Phe Thr Glu Asp Gln Ala Ala Pro
                 85                  90                  95

Asp Asp Lys Asn Lys Thr Asp Pro Gly Val His Ala Thr Leu Lys Ser
            100                 105                 110
```

```
Leu Ser Ser Gln Ile Glu Thr Met Arg Ser Pro Asp Gly Ser Lys Lys
        115                 120                 125

His Pro Ala Arg Thr Cys Asp Asp Leu Lys Leu Cys His Ser Ala Lys
    130                 135                 140

Gln Ser Gly Glu Tyr Trp Ile Asp Pro Asn Gln Gly Ser Val Glu Asp
145                 150                 155                 160

Ala Ile Lys Val Tyr Cys Asn Met Glu Thr Gly Glu Thr Cys Ile Ser
                165                 170                 175

Ala Asn Pro Ser Ser Val Pro Arg Lys Thr Trp Trp Ala Ser Lys Ser
            180                 185                 190

Pro Asp Asn Lys Pro Val Trp Tyr Gly Leu Asp Met Asn Arg Gly Ser
        195                 200                 205

Gln Phe Ala Tyr Gly Asp His Gln Ser Pro Asn Thr Ala Ile Thr Gln
    210                 215                 220

Met Thr Phe Leu Arg Leu Leu Ser Lys Glu Ala Ser Gln Asn Ile Thr
225                 230                 235                 240

Tyr Ile Cys Lys Asn Ser Val Gly Tyr Met Asp Asp Gln Ala Lys Asn
                245                 250                 255

Leu Lys Lys Ala Val Val Leu Lys Gly Ala Asn Asp Leu Asp Ile Lys
            260                 265                 270

Ala Glu Gly Asn Ile Arg Phe Arg Tyr Ile Val Leu Gln Asp Thr Cys
        275                 280                 285

Ser Lys Arg Asn Gly Asn Val Gly Lys Thr Val Phe Glu Tyr Arg Thr
    290                 295                 300

Gln Asn Val Ala Arg Leu Pro Ile Ile Asp Leu Ala Pro Val Asp Val
305                 310                 315                 320

Gly Gly Thr Asp Gln Glu Phe Gly Val Glu Ile Gly Pro Val Cys Phe
                325                 330                 335

Val
```

<210> 6184
<211> 104
<212> PRT
<213> Homo sapiens

<400> 6184
Leu His Cys Phe Tyr Ser Gly Leu Gly Phe Arg Lys Thr Gly Thr Val
1 5 10 15

Leu Ser Val His Arg Asn Thr Cys Gln Cys Gln Gly Phe Gln Ser Gly
20 25 30

Val Tyr Pro Asn Trp Ser Gly Arg Glu Gly Gln Thr His Ser Gln Arg
35 40 45

Pro Pro Cys Pro Arg Ser Asp Ser Ser Pro Leu Ala Ala Pro Thr Gly
50 55 60

Ala Leu Gly Trp Ser Gly Ser Trp Gly Ser Val Pro Leu Ile Ala Gly
65 70 75 80

Leu Cys Ser Pro Gly Phe Gly Ile Tyr Val Gly Thr Thr Pro Gly Leu
85 90 95

Leu Ser Lys Gly Leu Trp Leu Leu
100

<210> 6185
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6185
Gly Leu Thr Trp Ala Phe Arg Tyr Arg Pro Ala Gly Ile Ile Val Met
1 5 10 15

Ala Leu Leu Gly Met Phe Asn Val His Arg His Gly Ala Ile Asn Ser
20 25 30

Ala Ala Ile Leu Leu Tyr Ala Leu Thr Cys Cys Ile Ser Gly Tyr Val
35 40 45

Ser Ser His Phe Tyr Arg Gln Ile Gly Gly Glu Arg Trp Val Trp Glu
50 55 60

His His Ser His His Gln Ser Leu Leu Trp
65 70

<210> 6186
<211> 134
<212> PRT

<213> Homo sapiens

<400> 6186

```
Thr Leu Leu Glu Ala Leu Thr Val Ala Val Val Val Thr Phe Tyr Asp
  1               5                  10                  15

Val Tyr Ile Ile Leu Gln Ala Phe Ile Leu Thr Thr Thr Val Phe Phe
             20                  25                  30

Gly Leu Thr Val Tyr Thr Leu Gln Ser Lys Lys Asp Phe Ser Lys Phe
         35                  40                  45

Gly Ala Gly Leu Phe Ala Leu Leu Trp Ile Leu Cys Leu Ser Gly Phe
     50                  55                  60

Leu Lys Phe Phe Phe Tyr Ser Glu Ile Met Glu Leu Val Leu Ala Ala
 65                  70                  75                  80

Ala Gly Ala Leu Leu Phe Cys Gly Phe Ile Ile Tyr Asp Thr His Ser
                 85                  90                  95

Leu Met His Lys Leu Ser Pro Glu Glu Tyr Val Leu Ala Ala Ile Ser
            100                 105                 110

Leu Tyr Leu Asp Ile Ile Asn Leu Phe Leu His Leu Leu Arg Phe Leu
        115                 120                 125

Glu Ala Val Asn Lys Lys
    130
```

<210> 6187
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6187

```
Asp Tyr Ala Xaa Thr Pro Gln Gly Leu Cys Tyr Asp Val Ala Cys Thr
  1               5                  10                  15

Arg Lys Leu Gly Pro Leu Glu Gly Ser Ser Arg Ala Ala Ala Ala Ala
             20                  25                  30

Phe Gly Glu Ser Ala Gly Gln Met Ser Asn Glu Arg Gly Phe Glu Asn
         35                  40                  45
```

```
Val Glu Leu Gly Val Ile Gly Lys Lys Lys Lys Val Pro Arg Arg Val
     50                  55                  60

Ile His Phe Val Ser Gly Glu Thr Met Glu Glu Tyr Ser Thr Asp Glu
 65                  70                  75                  80

Asp Glu Val Asp Gly Leu Glu Lys Lys Asp Val Leu Pro Thr Val Asp
                 85                  90                  95

Pro Thr Lys Leu Thr Trp Gly Pro Tyr Leu Trp Phe Tyr Met Leu Arg
            100                 105                 110

Ala Ala Thr Ser Thr Leu Ser Val Cys Asp Phe Leu Gly Glu Lys Ile
        115                 120                 125

Ala Ser Val Leu Gly Ile Ser Thr Pro Lys Tyr Gln Tyr Ala Ile Asp
    130                 135                 140

Glu Tyr Tyr Arg Met Lys Lys Glu Glu Glu Glu Glu Glu Glu Glu Asn
145                 150                 155                 160

Arg Met Ser Glu Glu Ala Glu Lys Gln Tyr Gln Gln Asn Lys Leu Gln
                165                 170                 175

Thr Asp Ser Ile Val Gln Thr Asp Gln Pro Glu Thr Val Ile Ser Ser
            180                 185                 190

Ser Phe Val Asn Val Asn Phe Glu Met Glu Gly Asp Ser Glu Val Ile
        195                 200                 205

Met Glu Ser Lys Gln Asn Pro Val Ser Val Pro Pro
    210                 215                 220
```

<210> 6188
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6188
Glu Arg Cys Gly Xaa Xaa Arg Glu Ala Gln Glu Gly Asp Leu Gln Gly
1 5 10 15

Gln Glu Gly Ala Glu Ala Ser His Ala Gly Gly Pro Ala Ala Asp His
20 25 30

Tyr Ser Gly Xaa Ala His Xaa Gly Arg Gly Arg Ala Leu Asp Arg Gly
35 40 45

Val Cys Val Arg Gly His Ala Pro His His His Arg Val Ser Pro Ala
50 55 60

Xaa Gly Arg Gly Pro His Arg Gln Gly Glu Glu Cys Ser Gly Gly Gly
65 70 75 80

Arg Lys Gln Lys Met Ala Phe Ile Phe Arg Asp Val His Val Ala Glu
85 90 95

Leu Leu Ser Xaa Xaa His Xaa
100

<210> 6189
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6189
Lys Phe Trp Leu Gln Lys Xaa His Phe Leu Cys Ala Asn Lys Asn Val
1 5 10 15

Cys Ile Lys Tyr Asp Val Pro Pro Thr Trp Thr His Ser Val Pro His
20 25 30

Lys Ala Lys Pro Thr Ala Ala Ala Thr Ser Leu Gly Leu Arg Cys Ser
35 40 45

Arg Cys Phe Phe Gln Asp Arg Asn Gln Asn Val Arg Asn Thr Ala Glu
50 55 60

Arg Gly His Leu Glu Thr Lys Arg Arg Met Arg Ser Ser Ala Glu Val
65 70 75 80

Thr Gly Lys Ser Gln Asn Ser Asn Thr Leu Ala Gly Ala Trp Gly Val
85 90 95

Lys Asn Arg Arg Arg Glu Glu Ala Phe Pro Ser Leu Gln Arg Arg Asn
100 105 110

Gln Gly Gln Pro Lys Leu Pro Gly Ser Gln Asn Gln Phe Phe Tyr Gln
115 120 125

Ala Val Pro Leu Leu Ser Phe Gln Leu Leu Ala Thr Gly Arg Cys Cys
130 135 140

Ser Lys Gly Phe Ala Leu Arg Leu Gln Glu Glu Ala Ala Gly Arg Thr
145 150 155 160

Ala Gly Val Leu Gly Phe
165

<210> 6190
<211> 90

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6190
Ser Leu Gln Val Glu Lys Pro Leu Tyr Pro Phe Asn Pro Leu Trp Pro
1 5 10 15

Ser Phe Pro Xaa Xaa Val Asp Ala Thr Arg Glu Thr Asn Arg Leu Gly
20 25 30

Arg Leu Ile Asn His Ser Lys Cys Gly Asn Cys Gln Thr Lys Leu His
35 40 45

Asp Ile Asp Gly Val Pro His Leu Ile Leu Ile Ala Ser Arg Asp Ile
50 55 60

Ala Ala Gly Glu Glu Leu Leu Tyr Asp Tyr Gly Asp Arg Ser Lys Ala
65 70 75 80

Ser Ile Glu Ala His Pro Trp Leu Lys His
85 90

<210> 6191
<211> 162
<212> PRT
<213> Homo sapiens

<400> 6191
Tyr Lys Met Thr Glu Pro Gly Ala Ser Pro Glu Asp Pro Trp Val Lys
1 5 10 15

Val Glu Tyr Ala Tyr Ser Asp Asn Ser Leu Asp Pro Gly Leu Phe Val
20 25 30

Glu Ser Thr Arg Lys Gly Ser Val Val Ser Arg Ala Asn Ser Ile Gly
35 40 45

Ser Thr Ser Ala Ser Ser Val Pro Asn Thr Asp Asp Glu Asp Ser Asp
50 55 60

```
Tyr His Gln Glu Ala Tyr Lys Glu Ser Tyr Lys Asp Arg Arg Arg Arg
 65                  70                  75                  80

Ala His Thr Gln Ala Glu Gln Lys Arg Arg Asp Ala Ile Lys Arg Gly
                 85                  90                  95

Tyr Asp Asp Leu Gln Thr Ile Val Pro Thr Cys Gln Gln Gln Asp Phe
            100                 105                 110

Ser Ile Gly Ser Gln Lys Leu Ser Lys Ala Ile Val Leu Gln Lys Thr
        115                 120                 125

Ile Asp Tyr Ile Gln Phe Leu His Lys Glu Lys Lys Lys Gln Glu Glu
    130                 135                 140

Glu Val Ser Arg Tyr Ala Arg Met Tyr Arg Pro Lys Asp His Glu Ser
145                 150                 155                 160

Glu Leu
```

<210> 6192
<211> 350
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (135)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (141)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (145)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (150)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6192

```
Gly Thr Ser Gly Cys Trp Leu Leu Leu Val Leu Val Leu Val Leu Leu
  1               5                  10                  15

Val Ser Pro Arg Gly Cys Arg Ala Arg Arg Gly Leu Arg Gly Leu Leu
             20                  25                  30

Met Ala His Ser Gln Arg Leu Leu Phe Arg Ile Gly Tyr Ser Leu Tyr
         35                  40                  45

Thr Arg Thr Trp Leu Gly Tyr Leu Phe Tyr Arg Gln Gln Leu Arg Arg
     50                  55                  60

Ala Arg Asn Arg Tyr Pro Lys Gly His Ser Lys Thr Gln Pro Arg Leu
 65                  70                  75                  80

Phe Asn Gly Val Lys Val Leu Pro Ile Pro Val Leu Ser Asp Asn Tyr
                 85                  90                  95

Ser Tyr Leu Ile Ile Asp Thr Gln Ala Gln Leu Ala Val Ala Val Asp
            100                 105                 110

Pro Ser Asp Pro Arg Ala Val Gln Ala Ser Ile Glu Lys Xaa Gly Val
        115                 120                 125

Thr Leu Val Ala Ile Leu Xaa Thr His Lys His Trp Xaa His Xaa Gly
    130                 135                 140

Xaa Asn Arg Xaa Leu Xaa Arg Gly His Arg Asp Cys Arg Val Tyr Gly
145                 150                 155                 160

Ser Pro Gln Asp Gly Ile Pro Tyr Leu Thr His Pro Leu Cys His Gln
                165                 170                 175

Asp Val Val Ser Val Gly Arg Leu Gln Ile Arg Ala Leu Ala Thr Pro
            180                 185                 190

Gly His Thr Gln Gly His Leu Val Tyr Leu Leu Asp Gly Glu Pro Tyr
```

```
        195                 200                 205

Lys Gly Pro Ser Cys Leu Phe Ser Gly Asp Leu Leu Phe Leu Ser Gly
    210                 215                 220

Cys Gly Arg Thr Phe Glu Gly Asn Ala Glu Thr Met Leu Ser Ser Leu
225                 230                 235                 240

Asp Thr Val Leu Gly Leu Gly Asp Asp Thr Leu Leu Trp Pro Gly His
                245                 250                 255

Glu Tyr Ala Glu Glu Asn Leu Gly Phe Ala Gly Val Val Glu Pro Glu
            260                 265                 270

Asn Leu Ala Arg Glu Arg Lys Met Gln Trp Val Gln Arg Gln Arg Leu
        275                 280                 285

Glu Arg Lys Gly Thr Cys Pro Ser Thr Leu Gly Glu Glu Arg Ser Tyr
    290                 295                 300

Asn Pro Phe Leu Arg Thr His Cys Leu Ala Leu Gln Glu Ala Leu Gly
305                 310                 315                 320

Pro Gly Pro Gly Pro Thr Gly Asp Asp Asp Tyr Ser Arg Ala Gln Leu
                325                 330                 335

Leu Glu Glu Leu Arg Arg Leu Lys Asp Met His Lys Ser Lys
            340                 345                 350
```

<210> 6193
<211> 200
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6193

```
Ile Ser Tyr Ser Arg Trp Lys Thr Leu His Thr Val Leu Pro Gln Xaa
  1               5                  10                  15

Ile Arg Xaa Leu Leu Phe Cys Leu Leu Gln Lys Asp Pro Cys Pro Val
```

```
            20                  25                  30

Ala Glu Arg Gly Asn Asp Lys Asp Phe Thr Leu Asn Asp Phe Gly Phe
         35                  40                  45

Met Ile Phe His Ser Pro Tyr Cys Lys Leu Val Gln Lys Ser Leu Ala
     50                  55                  60

Arg Met Leu Leu Asn Asp Phe Leu Asn Asp Gln Asn Arg Asp Lys Asn
 65                  70                  75                  80

Ser Ile Tyr Ser Gly Leu Glu Ala Phe Gly Asp Val Lys Leu Glu Asp
                 85                  90                  95

Thr Tyr Phe Asp Arg Asp Val Glu Lys Ala Phe Met Lys Ala Ser Ser
            100                 105                 110

Glu Leu Phe Ser Gln Lys Thr Lys Ala Ser Leu Leu Val Ser Asn Gln
        115                 120                 125

Asn Gly Asn Met Tyr Thr Ser Ser Val Tyr Gly Ser Leu Ala Ser Val
    130                 135                 140

Leu Ala Gln Tyr Ser Pro Gln Gln Leu Ala Gly Lys Arg Ile Gly Val
145                 150                 155                 160

Phe Ser Tyr Gly Ser Gly Leu Ala Ala Thr Leu Tyr Ser Leu Lys Val
                165                 170                 175

Thr Gln Asp Ala Thr Pro Gly Ser Ala Leu Asp Lys Ile Thr Ala Ser
            180                 185                 190

Leu Cys Asp Leu Lys Ser Lys Ala
        195                 200
```

<210> 6194
<211> 113
<212> PRT
<213> Homo sapiens

<400> 6194

```
Glu Glu Leu Arg Glu Ser Ala Ala Ala Gly Ser Ala Asp Ala Met Asp
  1               5                  10                  15

Asn Val Gln Pro Lys Ile Lys His Arg Pro Phe Cys Phe Ser Val Lys
             20                  25                  30

Gly His Val Lys Met Leu Arg Leu Asp Ile Ile Asn Ser Leu Val Thr
         35                  40                  45
```

```
Thr Val Phe Met Leu Ile Val Ser Val Leu Ala Leu Ile Pro Glu Thr
     50                  55                  60

Thr Thr Leu Thr Val Gly Gly Gly Val Phe Ala Leu Val Thr Ala Val
 65                  70                  75                  80

Cys Cys Leu Ala Asp Gly Ala Leu Ile Tyr Arg Lys Leu Leu Phe Asn
                 85                  90                  95

Pro Ser Gly Pro Tyr Gln Lys Lys Pro Val His Glu Lys Lys Glu Val
            100                 105                 110

Leu
```

<210> 6195
<211> 480
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (196)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (392)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6195

```
Ser Asp Lys Trp Pro Thr Ala Val Arg Ala Asn Gly His Leu Leu Leu
  1               5                  10                  15

Asn Ser Glu Lys Met Ser Lys Ser Thr Gly Asn Phe Leu Thr Leu Thr
             20                  25                  30

Gln Ala Ile Asp Lys Phe Ser Ala Asp Gly Met Arg Leu Ala Leu Ala
         35                  40                  45

Asp Ala Gly Asp Thr Val Glu Asp Ala Asn Phe Val Glu Ala Met Ala
     50                  55                  60

Asp Ala Gly Ile Leu Arg Leu Tyr Thr Trp Val Glu Trp Val Lys Glu
 65                  70                  75                  80

Met Val Ala Asn Trp Asp Ser Leu Arg Ser Gly Pro Ala Ser Thr Phe
                 85                  90                  95
```

```
Asn Asp Arg Val Phe Ala Ser Glu Leu Asn Ala Gly Ile Ile Lys Thr
            100                 105                 110

Asp Gln Asn Tyr Glu Lys Met Met Phe Lys Glu Ala Leu Lys Thr Gly
        115                 120                 125

Phe Phe Glu Phe Gln Ala Ala Lys Asp Lys Tyr Arg Glu Leu Ala Val
    130                 135                 140

Glu Gly Met His Arg Glu Leu Val Phe Arg Phe Ile Glu Val Gln Thr
145                 150                 155                 160

Leu Leu Leu Ala Pro Phe Cys Pro His Leu Cys Glu His Ile Trp Thr
                165                 170                 175

Leu Leu Gly Lys Pro Asp Ser Ile Met Asn Ala Ser Trp Pro Val Ala
            180                 185                 190

Gly Pro Val Xaa Glu Val Leu Ile His Ser Ser Gln Tyr Leu Met Glu
        195                 200                 205

Val Thr His Asp Leu Arg Leu Arg Leu Lys Asn Tyr Met Met Pro Ala
    210                 215                 220

Lys Gly Lys Lys Thr Asp Lys Gln Pro Leu Gln Lys Pro Ser His Cys
225                 230                 235                 240

Thr Ile Tyr Val Ala Lys Asn Tyr Pro Pro Trp Gln His Thr Thr Leu
                245                 250                 255

Ser Val Leu Arg Lys His Phe Glu Ala Asn Asn Gly Lys Leu Pro Asp
            260                 265                 270

Asn Lys Val Ile Ala Ser Glu Leu Gly Ser Met Pro Glu Leu Lys Lys
        275                 280                 285

Tyr Met Lys Lys Val Met Pro Phe Val Ala Met Ile Lys Glu Asn Leu
    290                 295                 300

Glu Lys Met Gly Pro Arg Ile Leu Asp Leu Gln Leu Glu Phe Asp Glu
305                 310                 315                 320

Lys Ala Val Leu Met Glu Asn Ile Val Tyr Leu Thr Asn Ser Leu Glu
                325                 330                 335

Leu Glu His Ile Glu Val Lys Phe Ala Ser Glu Ala Glu Asp Lys Ile
            340                 345                 350

Arg Glu Asp Cys Cys Pro Gly Lys Pro Leu Asn Val Phe Arg Ile Glu
        355                 360                 365
```

```
Pro Gly Val Ser Val Ser Leu Val Asn Pro Gln Pro Ser Asn Gly His
    370                 375                 380

Phe Ser Thr Lys Ile Glu Ile Xaa Gln Gly Asp Asn Cys Asp Ser Ile
385                 390                 395                 400

Ile Arg Arg Leu Met Lys Met Asn Arg Gly Ile Lys Asp Leu Ser Lys
                405                 410                 415

Val Lys Leu Met Arg Phe Asp Asp Pro Leu Leu Gly Pro Arg Arg Val
            420                 425                 430

Pro Val Leu Gly Lys Glu Tyr Thr Glu Lys Thr Pro Ile Ser Glu His
        435                 440                 445

Ala Val Phe Asn Val Asp Leu Met Ser Lys Lys Ile His Leu Thr Glu
    450                 455                 460

Asn Gly Ile Arg Val Asp Ile Gly Asp Thr Ile Ile Tyr Leu Val His
465                 470                 475                 480
```

<210> 6196
<211> 110
<212> PRT
<213> Homo sapiens

<400> 6196

```
Met Lys Thr Arg Thr Ile Ser Phe Ala Arg Ile Pro Asn Leu Ala Arg
  1               5                  10                  15

Pro Ala Ala Pro Ser Leu Arg Pro Asp Asp Val Phe Ile Ala Val Lys
             20                  25                  30

Thr Thr Arg Lys Asn His Gly Pro Arg Leu Arg Leu Leu Leu Arg Thr
         35                  40                  45

Trp Ile Ser Arg Ala Arg Gln Gln Thr Phe Ile Phe Thr Asp Gly Asp
     50                  55                  60

Asp Pro Glu Leu Glu Leu Gln Gly Gly Asp Arg Val Ile Asn Thr Asn
 65                  70                  75                  80

Cys Ser Ala Val Arg Thr Arg Gln Ala Leu Cys Cys Lys Met Ser Val
                 85                  90                  95
```

Glu Tyr Asp Lys Phe Ile Glu Ser Gly Arg Lys Trp Phe Cys
100 105 110

<210> 6197
<211> 74
<212> PRT
<213> Homo sapiens

<400> 6197
Trp Leu Asn Ala Ala Lys Met Arg Ile Lys Gly Met Lys Trp Phe Asn
1 5 10 15

Thr Leu Ser His Asn Arg Trp Leu Glu Gln Glu Thr Asp Arg Ile Phe
20 25 30

Asp Phe Gly Lys Asn Ser Val Val Pro Thr Gly Phe Gly Trp Leu Gly
35 40 45

Asn Lys Gly Gln Ile Lys Glu Glu Met Gly Thr His Leu Trp Ile Thr
50 55 60

Ala Arg Met Leu His Val Tyr Ser Val Ala
65 70

<210> 6198
<211> 251
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6198
Leu Leu Pro Ala Gly Arg Lys Ala Arg Leu Ser Glu Ala Pro Gly Gly
1 5 10 15

Lys Lys Ser Leu Ser Met Leu His Tyr Ile Arg Gly Ala Ala Pro Lys
20 25 30

Asp Ile Pro Val Pro Leu Ser His Ser Thr Asn Gly Lys Ser Lys Pro
35 40 45

Trp Glu Pro Phe Val Ala Glu Glu Phe Ala His Xaa Phe His Glu Ser
50 55 60

```
Val Leu Gln Ser Thr Gln Lys Ala Leu Gln Lys His Lys Gly Ser Val
 65                  70                  75                  80

Ala Val Leu Ser Ala Glu Gln Asn His Lys Val Asp Thr Ser Val His
                 85                  90                  95

Tyr Asn Ile Pro Glu Leu Gln Ser Ser Ser Arg Ala Pro Pro Pro Gln
            100                 105                 110

His Asn Gly Gln Gln Glu Pro Pro Thr Ala Arg Lys Gly Pro Pro Thr
        115                 120                 125

Gln Glu Leu Asp Arg Asp Ser Glu Glu Glu Glu Glu Glu Asp Asp Glu
    130                 135                 140

Asp Gly Glu Asp Glu Glu Glu Val Pro Lys Arg Lys Trp Gln Gly Ile
145                 150                 155                 160

Glu Ala Val Phe Glu Ala Tyr Gln Glu His Ile Glu Glu Gln Asn Leu
                165                 170                 175

Glu Arg Gln Val Leu Gln Thr Gln Cys Arg Arg Leu Glu Ala Arg His
            180                 185                 190

Tyr Ser Leu Ser Leu Thr Ala Glu Gln Leu Ser His Ser Val Ala Glu
        195                 200                 205

Leu Arg Ser Gln Lys Gln Lys Met Val Ser Glu Arg Glu Arg Leu Gln
    210                 215                 220

Ala Glu Leu Asp His Leu Arg Lys Cys Leu Ala Leu Pro Ala Met His
225                 230                 235                 240

Trp Pro Arg Gly Tyr Leu Lys Gly Tyr Pro Arg
                245                 250
```

<210> 6199
<211> 115
<212> PRT
<213> Homo sapiens

<400> 6199

```
Glu Arg Val Ser Val Gly Gly Leu Val Gly Glu Val Ala Cys Ala Cys
  1               5                  10                  15

Arg Asp Cys Ile Pro Glu Thr Met Ala Glu Gly Asp Asn Arg Ser Thr
             20                  25                  30

Asn Leu Leu Ala Ala Glu Thr Ala Ser Leu Glu Glu Lys Pro Lys Met
```

```
        35                  40                  45

Tyr Phe Met Thr Met Ile Val Ser Leu Ala Ala Val Ala Trp Val Gly
     50                  55                  60

Gln Gln Val His Asn Leu Leu Leu Thr Tyr Leu Ile Val Thr Ser Leu
 65                  70                  75                  80

Leu Leu Leu Pro Gly Leu Asn Gln His Gly Ile Ile Leu Lys Tyr Ile
                85                  90                  95

Gly Met Ala Lys Arg Glu Ile Asn Lys Leu Leu Lys Gln Lys Glu Lys
            100                 105                 110

Lys Asn Glu
        115
```

<210> 6200
<211> 63
<212> PRT
<213> Homo sapiens

<400> 6200

```
Leu Phe Val Ser Phe Ile Phe Thr Leu Lys Gln Glu Leu Ser Tyr Leu
  1               5                  10                  15

Ile Ile Lys Val Ser Tyr Val Leu Ser Ala Arg Thr Phe Leu Ala Phe
             20                  25                  30

Val Arg Met Cys Leu His Met Ser Ile Ile Asn Pro His Val Tyr Thr
         35                  40                  45

Ile Val Ser Tyr Val Leu Leu Pro Asp Ser Ser Leu Cys Ile Leu
     50                  55                  60
```

<210> 6201
<211> 141
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (107)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6201

```
Pro Leu Pro Ser Gln Gly Ala Arg Trp Trp Leu Trp His Ser Cys Arg
```

```
  1               5                  10                  15

Val Val Phe Phe Ser Leu Arg Trp Ser Leu Thr Leu Val Thr Pro Ala
             20                  25                  30

Gly Met Trp Trp Cys Lys Gln Leu Thr Ala Ala Leu Thr Leu Arg Leu
         35                  40                  45

Lys Arg Ser Phe Cys Leu Gly Leu Leu Ser Ser Trp Asp Pro Arg Arg
     50                  55                  60

Glu Ser Pro His Pro Val His Val Pro Ala Gly Leu Asp Met Arg Gly
 65                  70                  75                  80

Arg Cys Val Phe Pro Ala Thr Phe Ser Ser Ser Phe Leu Arg Gln Thr
                 85                  90                  95

Leu Ala Pro Ser Pro Arg Pro Glu Cys Gly Xaa Ala Asn Thr Ala His
            100                 105                 110

Cys Ser Leu Asp Pro Gln Ala Gln Ala Ile Leu Thr Pro Arg Thr Pro
        115                 120                 125

Lys Val Leu Gly Ser Gln Ala Arg Val Thr Met Leu Ala
    130                 135                 140
```

<210> 6202
<211> 231
<212> PRT
<213> Homo sapiens

<400> 6202

```
Ile Ala Gly Thr Ala Thr Ala Arg Trp Trp Pro Ser Trp Trp Cys Ser
  1               5                  10                  15

Asn Val Arg His Leu Gly Leu Lys Ser Glu Glu Ile Cys Trp Thr Asn
             20                  25                  30

Ser Glu Thr Phe Ala Ala Trp Cys Ala Leu Ala Ser Gly Ser Ser Arg
         35                  40                  45

Arg Glu Gly Arg Cys Arg Gln Ala Arg Ser Pro Arg Ser Ser Ser Thr
     50                  55                  60

Ile Ser Arg Cys Thr Trp Glu Arg Thr Arg Ser Thr Pro Pro Gly Phe
 65                  70                  75                  80

Thr Ala Trp Lys Thr Ser Ser Ala Arg Ser Ala Val Ser Thr Pro Ala
                 85                  90                  95
```

```
Ala Ala Cys Glu Cys Ser Arg Ser Ser Pro Thr Ser Trp Thr Thr Arg
            100                 105                 110

Ser Ser Arg Leu Gly Ala Ala Gly Pro Ser Ala Ser Pro Ala Pro Arg
        115                 120                 125

Ser Leu Pro Phe Pro Ala Pro Gly Leu Arg Ser Gln Arg Phe Ser Thr
    130                 135                 140

Ser Ala Pro Pro Arg His Ala Arg Pro Pro Pro Val Ala Arg Ala Arg
145                 150                 155                 160

Ala Ala Pro Pro His Pro Gln Ala Ser Gly Arg Lys Ser Gln Glu Leu
                165                 170                 175

Pro Gln Gly Arg Lys Gly Ala Ala Ala Ser Ala Trp Leu Thr Ala Thr
            180                 185                 190

Ala Val Val Thr Val Leu Gly Asp Pro Ala Cys Ala Phe Pro Leu Arg
        195                 200                 205

Cys Lys Pro Gly Thr Gly Lys Gly Leu Arg Gly Glu Arg Thr Trp Pro
    210                 215                 220

Ser Pro Arg Val His Gly Gln
225                 230
```

<210> 6203
<211> 191
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (171)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (188)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6203

```
Gly Asp Pro Thr Cys Arg Gln Asn Leu Arg Cys Gly Thr Pro Gly Thr
  1               5                  10                  15

Val Ala Ala Ala Gly Asp Cys Gly Leu Phe Ser Ala Met His Pro Leu
             20                  25                  30

Gln Cys Val Leu Gln Val Gln Arg Ser Leu Gly Trp Gly Pro Leu Ala
         35                  40                  45

Ser Val Ser Trp Leu Ser Leu Arg Met Cys Arg Ala His Ser Ser Leu
     50                  55                  60

Ser Ser Thr Met Cys Pro Ser Pro Glu Arg Gln Glu Asp Gly Ala Arg
 65                  70                  75                  80

Lys Asp Phe Ser Ser Arg Leu Ala Ala Gly Pro Thr Phe Gln His Phe
                 85                  90                  95

Leu Lys Ser Ala Ser Ala Pro Gln Glu Lys Leu Ser Ser Glu Val Glu
            100                 105                 110

Asp Pro Pro Pro Tyr Leu Met Met Asp Glu Leu Leu Gly Arg Gln Arg
        115                 120                 125

Lys Val Tyr Leu Glu Thr Tyr Gly Cys Gln Met Asn Val Asn Asp Thr
    130                 135                 140

Glu Ile Ala Trp Ser Ile Leu Gln Lys Ser Gly Tyr Leu Arg Thr Ser
145                 150                 155                 160

Asn Leu Gln Glu Ala Asp Val Ile Leu Leu Xaa Xaa Ala Leu Ser Gly
                165                 170                 175

Arg Xaa Leu Ser Arg Pro Ser Gly Thr Val Thr Xaa Xaa Lys Ala
            180                 185                 190
```

<210> 6204
<211> 408
<212> PRT

<213> Homo sapiens

<400> 6204

```
Lys Ile Met Ala His Tyr Gly Ser Ile Gln Tyr Cys Phe His Thr Cys
  1               5                  10                  15

Thr Leu Glu Thr Lys Phe Pro Ile Ile Pro Tyr Ile Pro Thr Leu Ile
             20                  25                  30

Thr Gln Leu Thr Gln Lys Leu Leu Ala Val Ser Lys Asn Pro Ser Lys
         35                  40                  45

Pro His Phe Asn His Tyr Met Phe Glu Ala Ile Cys Leu Ser Ile Arg
     50                  55                  60

Ile Thr Cys Lys Ala Asn Pro Ala Ala Val Val Asn Phe Glu Glu Ala
 65                  70                  75                  80

Leu Phe Leu Val Phe Thr Glu Ile Leu Gln Asn Asp Val Gln Glu Phe
                 85                  90                  95

Ile Pro Tyr Val Phe Gln Val Met Ser Leu Leu Leu Glu Thr His Lys
            100                 105                 110

Asn Asp Ile Pro Ser Ser Tyr Met Ala Leu Phe Pro His Leu Leu Gln
        115                 120                 125

Pro Val Leu Trp Glu Arg Thr Gly Asn Ile Pro Ala Leu Val Arg Leu
    130                 135                 140

Leu Gln Ala Phe Leu Glu Arg Gly Ser Asn Thr Ile Ala Ser Ala Ala
145                 150                 155                 160

Ala Asp Lys Ile Pro Gly Leu Leu Gly Val Phe Gln Lys Leu Ile Ala
                165                 170                 175

Ser Lys Ala Asn Asp His Gln Gly Phe Tyr Leu Leu Asn Ser Ile Ile
            180                 185                 190

Glu His Met Pro Pro Glu Ser Val Asp Gln Tyr Arg Lys Gln Ile Phe
        195                 200                 205

Ile Leu Leu Phe Gln Arg Leu Gln Asn Ser Lys Thr Thr Lys Phe Ile
    210                 215                 220

Lys Ser Phe Leu Val Phe Ile Asn Leu Tyr Cys Ile Lys Tyr Gly Ala
225                 230                 235                 240

Leu Ala Leu Gln Glu Ile Phe Asp Gly Ile Gln Pro Lys Met Phe Gly
                245                 250                 255
```

```
Met Val Leu Glu Lys Ile Ile Ile Pro Glu Ile Gln Lys Val Ser Gly
            260                 265                 270

Asn Val Glu Lys Lys Ile Cys Ala Val Gly Ile Thr Lys Leu Leu Thr
        275                 280                 285

Glu Cys Pro Pro Met Met Asp Thr Glu Tyr Thr Lys Leu Trp Thr Pro
    290                 295                 300

Leu Leu Gln Ser Leu Ile Gly Leu Phe Glu Leu Pro Glu Asp Asp Thr
305                 310                 315                 320

Ile Pro Asp Glu Glu His Phe Ile Asp Ile Glu Asp Thr Pro Gly Tyr
                325                 330                 335

Gln Thr Ala Phe Ser Gln Leu Ala Phe Ala Gly Lys Lys Glu His Asp
            340                 345                 350

Pro Val Gly Gln Met Val Asn Asn Pro Lys Ile His Leu Ala Gln Ser
        355                 360                 365

Leu His Lys Leu Ser Thr Ala Cys Pro Gly Arg Val Pro Ser Met Val
    370                 375                 380

Ser Thr Ser Leu Asn Ala Glu Ala Leu Gln Tyr Leu Gln Gly Tyr Leu
385                 390                 395                 400

Gln Ala Ala Ser Val Thr Leu Leu
                405
```

<210> 6205
<211> 139
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (106)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6205
Ala Ala Ala Ser Arg Arg Pro Cys Ala Gln Arg Ser Arg Thr Ser Pro
1 5 10 15

Ala Ala Ala Ser Cys Arg Ser Ala Phe Gly Val Arg Arg Ala Gln Pro
20 25 30

Ala Ser Glu Leu Arg Gly Pro Gly Arg Val Ala Arg Met Ala Trp Ala
35 40 45

Gly Ser Arg Arg Val Pro Ala Gly Thr Arg Ala Ala Ala Glu Arg Cys
50 55 60

Cys Arg Leu Ser Leu Ser Pro Gly Ala Gln Pro Ala Arg Pro Arg Pro
65 70 75 80

Ser Ala Pro Pro Arg Pro Met Arg Phe Leu Thr Ser Cys Xaa Leu Leu
85 90 95

Leu Pro Arg Ala Ala Gln Ile Leu Ala Xaa Glu Ala Gly Leu Pro Ser
100 105 110

Xaa Arg Ser Phe Met Gly Phe Ala Ala Pro Phe Thr Asn Lys Arg Lys
115 120 125

Ala Tyr Ser Glu Arg Arg Ile Met Gly Tyr Ser
130 135

<210> 6206
<211> 275
<212> PRT
<213> Homo sapiens

<400> 6206
Gly Gly Ala Ser Asn Phe Leu Ser Trp Arg Glu Ser Ala Arg Trp Ser
1 5 10 15

Arg Gln Leu Arg Arg Thr Leu Ile Arg Leu Ser Phe Pro Ile Ser Cys
20 25 30

Gly Arg Ser His Ala Phe Gly Gly Cys Lys Met Ala Ala Thr Ser Gly
35 40 45

Thr Asp Glu Pro Val Ser Gly Glu Leu Val Ser Val Ala His Ala Leu
50 55 60

Ser Leu Pro Ala Glu Ser Tyr Gly Asn Asp Pro Asp Ile Glu Met Ala
65 70 75 80

```
Trp Ala Met Arg Ala Met Gln His Ala Glu Val Tyr Tyr Lys Leu Ile
                 85                  90                  95

Ser Ser Val Asp Pro Gln Phe Leu Lys Leu Thr Lys Val Asp Asp Gln
            100                 105                 110

Ile Tyr Ser Glu Phe Arg Lys Asn Phe Glu Thr Leu Arg Ile Asp Val
        115                 120                 125

Leu Asp Pro Glu Glu Leu Lys Ser Glu Ser Ala Lys Glu Lys Trp Arg
    130                 135                 140

Pro Phe Cys Leu Lys Phe Asn Gly Ile Val Glu Asp Phe Asn Tyr Gly
145                 150                 155                 160

Thr Leu Leu Arg Leu Asp Cys Ser Gln Gly Tyr Thr Glu Glu Asn Thr
                165                 170                 175

Ile Phe Ala Pro Arg Ile Gln Phe Phe Ala Ile Glu Ile Ala Arg Asn
            180                 185                 190

Arg Glu Gly Tyr Asn Lys Ala Val Tyr Ile Ser Val Gln Asp Lys Glu
        195                 200                 205

Gly Glu Lys Gly Val Asn Asn Gly Gly Glu Lys Arg Ala Asp Ser Gly
    210                 215                 220

Glu Glu Glu Asn Thr Lys Asn Gly Gly Glu Lys Gly Ala Asp Ser Gly
225                 230                 235                 240

Glu Glu Lys Glu Glu Gly Ile Asn Arg Glu Asp Lys Thr Asp Lys Gly
                245                 250                 255

Gly Glu Lys Gly Lys Glu Ala Asp Lys Glu Ile Asn Lys Ser Gly Glu
            260                 265                 270

Lys Ala Met
        275
```

<210> 6207
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6207
Lys Met Leu Xaa Glu Ile Lys Ile Ile Ser Leu Xaa Val Arg Leu Asn
1 5 10 15

Thr Xaa Asn Leu Xaa Pro Asn Ile Thr Tyr Gly Ser Asn Tyr Phe Leu
20 25 30

Phe Cys Cys Leu Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys
35 40 45

Lys Xaa Phe Phe Val Gly Gly Xaa Phe Tyr Leu Leu Gln Asn Asn Lys
50 55 60

Val Gln Thr Ile Leu Cys Leu Thr Val Ala Leu Ser Lys His Tyr Ala
65 70 75 80

Trp Ile Ala Phe Glu Lys Lys
85

<210> 6208
<211> 119
<212> PRT
<213> Homo sapiens

<400> 6208
Pro Phe Pro Ser Leu Pro Ser Ser Cys Cys Gln Gly Leu Gln Val Cys
1 5 10 15

His Arg Pro Gly Pro Ser Leu Lys His Gly Ile Ile Ser Glu Leu Glu
20 25 30

Val Ala Ala Ser Glu Lys Asn Pro Ser Arg Val Leu Thr Ala Glu Ile
35 40 45

Gln Glu Leu Gly Asn Gln Pro Pro Val Cys Arg Leu Leu Ser Leu Glu
50 55 60

Ile Leu Trp Pro Asn Leu Val Ala Val Phe Trp Asn Ser Phe Tyr Arg
65 70 75 80

Gly Arg Gln Cys Cys Ala Phe Leu Asp Phe Arg Met Phe Gln Gly Cys
85 90 95

Cys Trp Ile Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys
100 105 110

Val Arg Ala Cys Met Cys Ala
115

<210> 6209
<211> 180
<212> PRT
<213> Homo sapiens

<400> 6209
Arg Asn Met Ser Ser Phe Ser Arg Ala Pro Gln Gln Trp Ala Thr Phe
1 5 10 15

Ala Arg Ile Trp Tyr Leu Leu Asp Gly Lys Met Gln Pro Pro Gly Lys
20 25 30

Leu Ala Ala Met Ala Ser Ile Arg Leu Gln Gly Leu His Lys Pro Val
35 40 45

Tyr His Ala Leu Ser Asp Cys Gly Asp His Val Val Ile Met Asn Thr
50 55 60

Arg His Ile Ala Phe Ser Gly Asn Lys Trp Glu Gln Lys Val Tyr Ser
65 70 75 80

Ser His Thr Gly Tyr Pro Gly Gly Phe Arg Gln Val Thr Ala Ala Gln
85 90 95

```
Leu His Leu Arg Asp Pro Val Ala Ile Val Lys Leu Ala Ile Tyr Gly
            100                 105                 110

Met Leu Pro Lys Asn Leu His Arg Arg Thr Met Met Glu Arg Leu His
        115                 120                 125

Leu Phe Pro Asp Glu Tyr Ile Pro Glu Asp Ile Leu Lys Asn Leu Val
    130                 135                 140

Glu Glu Leu Pro Gln Pro Arg Lys Ile Pro Lys Arg Leu Asp Glu Tyr
145                 150                 155                 160

Thr Gln Glu Glu Ile Asp Ala Phe Pro Arg Leu Trp Thr Pro Pro Glu
                165                 170                 175

Asp Tyr Arg Leu
            180
```

<210> 6210
<211> 86
<212> PRT
<213> Homo sapiens

<400> 6210

```
Ala Glu Leu Gly Ala Asn Gly Ser Ile Ala Val Ile Ser Gly Arg Arg
  1               5                  10                  15

Val Ser Ile Gln Val Ser Asp Ser Ser Ala Arg Leu Pro Trp Val Trp
             20                  25                  30

Glu Glu Ala Leu Pro Phe Cys Ala Val Asp Pro Ala Cys Leu Leu Trp
         35                  40                  45

Ser Pro Pro Thr Leu Ala Arg Ser Phe Thr Asn Gln Arg Arg Ala Val
     50                  55                  60

Ser Lys Ser Ser Asp Arg Met Trp Cys Lys Cys Arg Cys Thr Ser Leu
 65                  70                  75                  80

Thr Leu Ser Cys Arg Ser
                85
```

<210> 6211
<211> 42
<212> PRT
<213> Homo sapiens

<400> 6211
Ile Leu Ser Asp Val Trp Ser Leu Ser Ile Gln Thr Val Asn Ile Val
1 5 10 15

Leu Val Phe Val Leu Ile Leu Ile Leu Leu Leu Tyr Ser Leu Arg Cys
20 25 30

Ala Met Gln Thr Leu Ser Asn Cys Val Trp
35 40

<210> 6212
<211> 269
<212> PRT
<213> Homo sapiens

<400> 6212
Arg Asp Leu Ser Glu Pro Val Ala Gly Leu Phe Tyr Phe Pro Ser Leu
1 5 10 15

Ser Pro Ala Pro Tyr Leu Phe Ser Pro Phe Ser His Pro Arg Ser Arg
20 25 30

Ser His Gly Gly Ala Ser Ala Ala Thr Gln Ser His Ser Ile Ser Ser
35 40 45

Ser Ser Phe Gly Ala Glu Pro Ser Ala Pro Gly Gly Gly Gly Ser Pro
50 55 60

Gly Ala Cys Pro Ala Leu Gly Thr Lys Ser Cys Ser Ser Ser Cys Ala
65 70 75 80

Val His Asp Leu Ile Phe Trp Arg Asp Val Lys Lys Thr Gly Phe Val
85 90 95

Phe Gly Thr Thr Leu Ile Met Leu Leu Ser Leu Ala Ala Phe Ser Val
100 105 110

Ile Ser Val Val Ser Tyr Leu Ile Leu Ala Leu Leu Ser Val Thr Ile
115 120 125

Ser Phe Arg Ile Tyr Lys Ser Val Ile Gln Ala Val Gln Lys Ser Glu
130 135 140

Glu Gly His Pro Phe Lys Ala Tyr Leu Asp Val Asp Ile Thr Leu Ser
145 150 155 160

Ser Glu Ala Phe His Asn Tyr Met Asn Ala Ala Met Val His Ile Asn
165 170 175

```
Arg Ala Leu Lys Leu Ile Ile Arg Leu Phe Leu Val Glu Asp Leu Val
            180                 185                 190

Asp Ser Leu Lys Leu Ala Val Phe Met Trp Leu Met Thr Tyr Val Gly
        195                 200                 205

Ala Val Phe Asn Gly Ile Thr Leu Leu Ile Leu Ala Glu Leu Leu Ile
    210                 215                 220

Phe Ser Val Pro Ile Val Tyr Glu Lys Tyr Lys Thr Gln Ile Asp His
225                 230                 235                 240

Tyr Val Gly Ile Ala Arg Asp Gln Thr Lys Ser Ile Val Glu Lys Ile
                245                 250                 255

Gln Ala Lys Leu Pro Gly Ile Ala Lys Lys Lys Ala Glu
            260                 265
```

<210> 6213
<211> 206
<212> PRT
<213> Homo sapiens

<400> 6213

```
Pro Ala Gly Asp Asn Gly Asn Met Ala Leu Asn Gly Ala Glu Val Asp
  1               5                  10                  15

Asp Phe Ser Trp Glu Pro Pro Thr Glu Ala Glu Thr Lys Val Leu Gln
             20                  25                  30

Ala Arg Arg Glu Arg Gln Asp Arg Ile Ser Arg Leu Met Gly Asp Tyr
         35                  40                  45

Leu Leu Arg Gly Tyr Arg Met Leu Gly Glu Thr Cys Ala Asp Cys Gly
     50                  55                  60

Thr Ile Leu Leu Gln Asp Lys Gln Arg Lys Ile Tyr Cys Val Ala Cys
 65                  70                  75                  80

Gln Glu Leu Asp Ser Asp Val Asp Lys Asp Asn Pro Ala Leu Asn Ala
                 85                  90                  95

Gln Ala Ala Leu Ser Gln Ala Arg Glu His Gln Leu Ala Ser Ala Ser
            100                 105                 110

Glu Leu Pro Leu Gly Ser Arg Pro Ala Pro Gln Pro Pro Val Pro Arg
        115                 120                 125
```

```
Pro Glu His Cys Glu Gly Ala Ala Ala Gly Leu Lys Ala Ala Gln Gly
    130                 135                 140

Pro Pro Ala Pro Ala Val Pro Pro Asn Thr Asp Val Met Ala Cys Thr
145                 150                 155                 160

Gln Thr Ala Leu Leu Gln Lys Leu Thr Trp Ala Ser Ala Glu Leu Gly
                165                 170                 175

Ser Ser Thr Ser Leu Glu Thr Ser Ile Gln Leu Cys Gly Leu Ile Arg
            180                 185                 190

Ala Cys Ala Glu Ala Leu Arg Ser Leu Gln Gln Leu Gln His
        195                 200                 205



<210> 6214
<211> 583
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (397)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6214
Ala Ala Pro Ala Trp Ala Ala Leu Pro Leu Ser Arg Ser Leu Pro Pro
  1               5                  10                  15

Cys Ser Asn Ser Ser Ser Phe Ser Met Pro Leu Phe Leu Leu Leu Leu
             20                  25                  30

Leu Val Leu Leu Leu Leu Leu Glu Asp Ala Gly Ala Gln Gln Gly Asp
         35                  40                  45

Gly Cys Gly His Thr Val Leu Gly Pro Glu Ser Gly Thr Leu Thr Ser
     50                  55                  60

Ile Asn Tyr Pro Gln Thr Tyr Pro Asn Ser Thr Val Cys Glu Trp Glu
 65                  70                  75                  80

Ile Arg Val Lys Met Gly Glu Arg Val Arg Ile Lys Phe Gly Asp Phe
                 85                  90                  95

Asp Ile Glu Asp Ser Asp Ser Cys His Phe Asn Tyr Leu Arg Ile Tyr
            100                 105                 110

Asn Gly Ile Gly Val Ser Arg Thr Glu Ile Gly Lys Tyr Cys Gly Leu
        115                 120                 125
```

```
Gly Leu Gln Met Asn His Ser Ile Glu Ser Lys Gly Asn Glu Ile Thr
    130                 135                 140

Leu Leu Phe Met Ser Gly Ile His Val Ser Gly Arg Gly Phe Leu Ala
145                 150                 155                 160

Ser Tyr Ser Val Ile Asp Lys Gln Asp Leu Ile Thr Cys Leu Asp Thr
                165                 170                 175

Ala Ser Asn Phe Leu Glu Pro Glu Phe Ser Lys Tyr Cys Pro Ala Gly
            180                 185                 190

Cys Leu Leu Pro Phe Ala Glu Ile Ser Gly Thr Ile Pro His Gly Tyr
        195                 200                 205

Arg Asp Ser Ser Pro Leu Cys Met Ala Gly Val His Ala Gly Val Val
    210                 215                 220

Ser Asn Thr Leu Gly Gly Gln Ile Ser Val Val Ile Ser Lys Gly Ile
225                 230                 235                 240

Pro Tyr Tyr Glu Ser Ser Leu Ala Asn Asn Val Thr Ser Val Val Gly
                245                 250                 255

His Leu Ser Thr Ser Leu Phe Thr Phe Lys Thr Ser Gly Cys Tyr Gly
            260                 265                 270

Thr Leu Gly Met Glu Ser Gly Val Ile Ala Asp Pro Gln Ile Thr Ala
        275                 280                 285

Ser Ser Val Leu Glu Trp Thr Asp His Thr Gly Gln Glu Asn Ser Trp
    290                 295                 300

Lys Pro Lys Lys Ala Arg Leu Lys Lys Pro Gly Pro Pro Trp Ala Ala
305                 310                 315                 320

Phe Ala Thr Asp Glu Tyr Gln Trp Leu Gln Ile Asp Leu Asn Lys Glu
                325                 330                 335

Lys Lys Ile Thr Gly Ile Ile Thr Thr Gly Ile Thr Met Val Glu His
            340                 345                 350

Asn Tyr Tyr Val Ser Ala Tyr Arg Ile Leu Tyr Ser Asp Asp Gly Gln
        355                 360                 365

Lys Trp Thr Val Tyr Arg Glu Pro Gly Val Glu Gln Asp Lys Ile Phe
    370                 375                 380

Gln Gly Asn Lys Asp Tyr His Gln Asp Val Arg Asn Xaa Phe Leu Pro
385                 390                 395                 400
```

```
Pro Ile Ile Ala Arg Phe Ile Arg Val Asn Pro Thr Gln Trp Gln Gln
                405                 410                 415

Lys Ile Ala Met Lys Met Glu Leu Leu Gly Cys Gln Phe Ile Pro Lys
            420                 425                 430

Gly Arg Pro Pro Lys Leu Thr Gln Pro Pro Pro Pro Arg Asn Ser Asn
        435                 440                 445

Asp Leu Lys Asn Thr Thr Ala Pro Pro Lys Ile Ala Lys Gly Arg Ala
    450                 455                 460

Pro Lys Phe Thr Gln Pro Leu Gln Pro Arg Ser Ser Asn Glu Phe Pro
465                 470                 475                 480

Ala Gln Thr Glu Gln Thr Thr Ala Ser Pro Asp Ile Arg Asn Thr Thr
                485                 490                 495

Val Thr Pro Asn Val Thr Lys Asp Val Ala Leu Ala Ala Val Leu Val
            500                 505                 510

Pro Val Leu Val Met Val Leu Thr Thr Leu Ile Leu Ile Leu Val Cys
        515                 520                 525

Ala Trp His Trp Arg Asn Arg Lys Lys Lys Thr Glu Gly Thr Tyr Asp
    530                 535                 540

Leu Pro Tyr Trp Asp Arg Ala Gly Asn Ser Arg Gly Leu Cys Ile Ser
545                 550                 555                 560

Phe Leu Ser Glu Gly Cys Arg Ser Pro Thr Gly Gly Ser Ser Glu Lys
                565                 570                 575

Arg Val Ile Leu Trp Pro Arg
            580
```

<210> 6215
<211> 167
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (163)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6215

```
Pro Ser Arg Gly His Thr Trp Ala Tyr Ser Gly Xaa Ala Glu Pro Ala
  1               5                  10                  15

Xaa Ala Arg Leu Arg Ala Ser Leu Thr Leu Ser Arg Glu Ala Gln Lys
             20                  25                  30

Phe Ala Leu Ala Arg Glu Val Val Tyr Leu Glu Ser Ser Thr Thr Ala
         35                  40                  45

Val His Ala Leu Leu Ala Pro Ala Cys Leu Ala Gly Thr Trp Ala Leu
     50                  55                  60

Gly Val Gly Ala Lys Tyr Thr Leu Gly Leu His Ala Gly Pro Met Asn
 65                  70                  75                  80

Leu Arg Ala Ala Phe Ser Leu Val Ala Ala Val Ala Gly Phe Val Ala
                 85                  90                  95

Tyr Ala Phe Ser Gln Asp Ser Leu Thr His Ala Val Glu Ser Trp Leu
            100                 105                 110

Asp Arg Arg Thr Ala Ser Leu Ser Ala Ala Tyr Ala Cys Gly Gly Val
        115                 120                 125

Glu Phe Tyr Glu Lys Leu Leu Ser Gly Asn Leu Ala Leu Arg Xaa Leu
    130                 135                 140

Phe Gly Gln Lys Lys Gly Glu Lys Leu Tyr Thr Pro Asn Xaa Glu His
145                 150                 155                 160

Arg Pro Xaa Asp Thr Cys Ser
                165
```

<210> 6216
<211> 63
<212> PRT
<213> Homo sapiens

<400> 6216
Gln Gly Leu Pro Ser Met Lys Tyr Leu Thr Phe Ser His Pro Leu Lys
1 5 10 15

Asn Ile His Phe Tyr Lys Met Lys Thr Ile Ile Asn Val Leu Asn Ile
20 25 30

Lys Lys Asn Asn Asn Leu Gln Arg Lys Ile Asn Gly Asp Ser Tyr Leu
35 40 45

Pro Cys Thr Phe Ser Thr Ile Val Ala Ala Ser Cys Thr His Leu
50 55 60

<210> 6217
<211> 521
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (93)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6217
Ala Asp Tyr Leu Leu Ser Arg Met Asp Val Thr Ser Cys Ile Ser Tyr
1 5 10 15

Arg Asn Phe Ala Ser Cys Met Gly Asp Ser Arg Leu Leu Asn Lys Val
20 25 30

Asp Ala Tyr Ile Gln Glu His Leu Leu Gln Ile Ser Glu Glu Glu Glu

```
        35                  40                  45

Phe Leu Lys Leu Pro Arg Leu Lys Leu Glu Val Met Leu Glu Asp Asn
     50                  55                  60

Val Cys Leu Pro Ser Asn Gly Lys Leu Tyr Thr Lys Val Ile Asn Trp
 65                  70                  75                  80

Val Gln Arg Xaa Ile Trp Glu Asn Gly Asp Ser Leu Xaa Xaa Leu Met
                 85                  90                  95

Glu Glu Val Gln Thr Leu Tyr Tyr Ser Ala Asp His Lys Leu Leu Asp
            100                 105                 110

Gly Asn Leu Leu Asp Gly Gln Ala Glu Val Phe Gly Ser Asp Asp Asp
        115                 120                 125

His Ile Gln Phe Val Gln Lys Lys Pro Pro Arg Glu Asn Gly His Lys
    130                 135                 140

Gln Ile Ser Ser Ser Ser Thr Gly Cys Leu Ser Ser Pro Asn Ala Thr
145                 150                 155                 160

Val Gln Ser Pro Lys His Glu Trp Lys Ile Val Ala Ser Glu Lys Thr
                165                 170                 175

Ser Asn Asn Thr Tyr Leu Cys Leu Ala Val Leu Asp Gly Ile Phe Cys
            180                 185                 190

Val Ile Phe Leu His Gly Arg Asn Ser Pro Gln Ser Ser Pro Thr Ser
        195                 200                 205

Thr Pro Lys Leu Ser Lys Ser Leu Ser Phe Glu Met Gln Gln Asp Glu
    210                 215                 220

Leu Ile Glu Lys Pro Met Ser Pro Met Gln Tyr Ala Arg Ser Gly Leu
225                 230                 235                 240

Gly Thr Ala Glu Met Asn Gly Lys Leu Ile Ala Ala Gly Gly Tyr Asn
                245                 250                 255

Arg Glu Glu Cys Leu Arg Thr Val Glu Cys Tyr Asn Pro His Thr Asp
            260                 265                 270

His Trp Ser Phe Leu Ala Pro Met Arg Thr Pro Arg Ala Arg Phe Gln
        275                 280                 285

Met Ala Val Leu Met Gly Gln Leu Tyr Val Val Gly Gly Ser Asn Gly
    290                 295                 300

His Ser Asp Asp Leu Ser Cys Gly Glu Met Tyr Asp Ser Asn Ile Asp
```

```
305                 310                 315                 320

Asp Trp Ile Pro Val Pro Glu Leu Arg Thr Asn Arg Cys Asn Ala Gly
                325                 330                 335

Val Cys Ala Leu Asn Gly Lys Leu Tyr Ile Val Gly Gly Ser Asp Pro
            340                 345                 350

Tyr Gly Gln Lys Gly Leu Lys Asn Cys Asp Val Phe Asp Pro Val Thr
        355                 360                 365

Lys Leu Trp Thr Ser Cys Ala Pro Leu Asn Ile Arg Arg His Gln Ser
    370                 375                 380

Ala Val Cys Glu Leu Gly Gly Tyr Leu Tyr Ile Ile Gly Gly Ala Glu
385                 390                 395                 400

Ser Trp Asn Cys Leu Asn Thr Val Glu Arg Tyr Asn Pro Glu Asn Asn
                405                 410                 415

Thr Trp Thr Leu Ile Ala Pro Met Asn Val Ala Arg Arg Gly Ala Gly
            420                 425                 430

Val Ala Val Leu Asn Gly Lys Leu Phe Val Cys Gly Gly Phe Asp Gly
        435                 440                 445

Ser His Ala Ile Ser Cys Val Glu Met Tyr Asp Pro Thr Arg Asn Glu
    450                 455                 460

Trp Lys Met Met Gly Asn Met Thr Ser Pro Arg Ser Asn Ala Gly Ile
465                 470                 475                 480

Ala Thr Val Gly Asn Thr Ile Tyr Ala Val Gly Gly Phe Asp Gly Asn
                485                 490                 495

Glu Phe Leu Asn Thr Val Glu Val Tyr Asn Leu Glu Ser Asn Glu Trp
            500                 505                 510

Ser Pro Tyr Thr Lys Ile Phe Gln Phe
        515                 520
```

<210> 6218
<211> 425
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6218

```
Gly Val Trp Ser Leu Met Leu Leu Gly Asp Met Arg Leu Xaa Phe Xaa
  1               5                  10                  15

Gln Val Glu Asp Glu Leu Ser Ser Pro Val Val Val Phe Arg Phe Phe
             20                  25                  30

Gln Glu Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro
         35                  40                  45

Asn Met Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala
     50                  55                  60

Leu Asn Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser
 65                  70                  75                  80

Gly Leu Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe
                 85                  90                  95

Ser Pro Leu Met Thr Ala Ala Val Leu Gly Thr Arg Gly Glu Asp Val
            100                 105                 110

Asp Gln Leu Val Ala Cys Ile Glu Ser Lys Leu Pro Val Leu Cys Cys
        115                 120                 125

Thr Leu Gln Leu Arg Glu Glu Phe Lys Gln Glu Val Glu Ala Thr Ala
    130                 135                 140

Gly Leu Leu Tyr Val Asp Asp Pro Asn Trp Ser Gly Ile Gly Val Val
145                 150                 155                 160

Arg Tyr Glu His Ala Asn Asp Asp Lys Ser Ser Leu Lys Ser Asp Pro
                165                 170                 175

Glu Gly Glu Asn Ile His Ala Gly Leu Leu Lys Lys Leu Asn Glu Leu
            180                 185                 190

Glu Ser Asp Leu Thr Phe Lys Ile Gly Pro Glu Tyr Lys Ser Met Lys
        195                 200                 205

Ser Cys Leu Tyr Val Gly Met Ala Ser Asp Asn Val Asp Ala Ala Glu
    210                 215                 220

Leu Val Glu Thr Ile Ala Ala Thr Ala Arg Glu Ile Glu Glu Asn Ser
```

225 230 235 240

Arg Leu Leu Glu Asn Met Thr Glu Val Val Arg Lys Gly Ile Gln Glu
245 250 255

Ala Gln Val Glu Leu Gln Lys Ala Ser Glu Glu Arg Leu Leu Glu Glu
260 265 270

Gly Val Leu Arg Gln Ile Pro Val Val Gly Ser Val Leu Asn Trp Phe
275 280 285

Ser Pro Val Gln Ala Leu Gln Lys Gly Arg Thr Phe Asn Leu Thr Ala
290 295 300

Gly Ser Leu Glu Ser Thr Glu Pro Ile Tyr Val Tyr Lys Ala Gln Gly
305 310 315 320

Ala Gly Val Thr Leu Pro Pro Thr Pro Ser Gly Ser Arg Thr Lys Gln
325 330 335

Arg Leu Pro Gly Gln Lys Pro Phe Lys Arg Ser Leu Arg Gly Ser Asp
340 345 350

Ala Leu Ser Glu Thr Ser Ser Val Ser His Ile Glu Asp Leu Glu Lys
355 360 365

Val Glu Arg Leu Ser Ser Gly Pro Glu Gln Ile Thr Leu Glu Ala Ser
370 375 380

Ser Thr Glu Gly His Pro Gly Ala Pro Ser Pro Gln His Thr Asp Gln
385 390 395 400

Thr Glu Ala Phe Gln Lys Gly Val Pro His Pro Glu Asp Asp His Ser
405 410 415

Gln Val Glu Gly Pro Glu Ser Leu Arg
420 425

<210> 6219
<211> 130
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (22)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (60)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (77)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6219
Ser Lys Glu Ala Ala Leu Gln Trp His Ser Trp Val Trp Cys Thr Thr
1 5 10 15

Pro Gln Glu His Leu Xaa Phe Cys Leu Ile Asn Ala Gly Val Leu Tyr
20 25 30

Leu Tyr Phe Ser Asn Tyr Leu Gln Ile Asp Glu Glu Xaa Tyr Gly Gly
35 40 45

Thr Trp Glu Leu Thr Xaa Glu Gly Phe Met Thr Xaa Phe Ala Leu Phe
50 55 60

Arg Ser Leu Asp His Leu Leu His Cys His Pro Leu Xaa Leu Met Val
65 70 75 80

Tyr Ser Ser Gln Cys Ser Leu Ser Ser Pro Lys Asp Pro Leu Gly Leu
85 90 95

Gln His Arg Asn Leu Asp Arg Trp Gly Thr Gln Pro Leu Gly Asn Leu
100 105 110

Glu Asp Pro Cys Phe Arg Asp Arg Glu Ser Val Cys Trp Gly Ile Ser
115 120 125

Val Phe
130

<210> 6220
<211> 150

<212> PRT
<213> Homo sapiens

<400> 6220
Thr Pro Thr Pro Phe Gly Ser Ala Arg Ala Pro Gln Ala Arg Pro Gly
1 5 10 15

Arg Arg Asp Gly Arg Met Ser Gly Gly Arg Arg Lys Glu Glu Pro Pro
20 25 30

Gln Pro Gln Leu Ala Asn Gly Ala Leu Lys Val Ser Val Trp Ser Lys
35 40 45

Val Leu Arg Ser Asp Ala Ala Trp Glu Asp Lys Asp Glu Phe Leu Asp
50 55 60

Val Ile Tyr Trp Phe Arg Gln Ile Ile Ala Val Val Leu Gly Val Ile
65 70 75 80

Trp Gly Val Leu Pro Leu Arg Gly Phe Leu Gly Ile Ala Gly Phe Cys
85 90 95

Leu Ile Asn Ala Gly Val Leu Tyr Leu Tyr Phe Ser Asn Tyr Leu Gln
100 105 110

Ile Asp Glu Glu Glu Tyr Gly Gly Thr Trp Glu Leu Thr Lys Glu Gly
115 120 125

Phe Met Thr Ser Phe Ala Leu Phe Met Val Ile Trp Ile Ile Phe Tyr
130 135 140

Thr Ala Ile His Tyr Asp
145 150

<210> 6221
<211> 782
<212> PRT
<213> Homo sapiens

<400> 6221
Trp Ser Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln Ser Arg Trp Trp
1 5 10 15

Ser Arg Arg Gly Gly Ser Arg Ser Thr Met Pro Ala Leu Pro Leu Asp
20 25 30

Gln Leu Gln Ile Thr His Lys Asp Pro Lys Thr Gly Lys Leu Arg Thr
35 40 45

```
Ser Pro Ala Leu His Pro Glu Gln Lys Ala Asp Arg Tyr Phe Val Leu
     50                  55                  60

Tyr Lys Pro Pro Pro Lys Asp Asn Ile Pro Ala Leu Val Glu Glu Tyr
 65                  70                  75                  80

Leu Glu Arg Ala Thr Phe Val Ala Asn Asp Leu Asp Trp Leu Leu Ala
                 85                  90                  95

Leu Pro His Asp Lys Phe Trp Cys Gln Val Ile Phe Asp Glu Thr Leu
            100                 105                 110

Gln Lys Cys Leu Asp Ser Tyr Leu Arg Tyr Val Pro Arg Lys Phe Asp
        115                 120                 125

Glu Gly Val Ala Ser Ala Pro Glu Val Val Asp Met Gln Lys Arg Leu
    130                 135                 140

His Arg Ser Val Phe Leu Thr Phe Leu Arg Met Ser Thr His Lys Glu
145                 150                 155                 160

Ser Lys Asp His Phe Ile Ser Pro Ser Ala Phe Gly Glu Ile Leu Tyr
                165                 170                 175

Asn Asn Phe Leu Phe Asp Ile Pro Lys Ile Leu Asp Leu Cys Val Leu
            180                 185                 190

Phe Gly Lys Gly Asn Ser Pro Leu Leu Gln Lys Met Ile Gly Asn Ile
        195                 200                 205

Phe Thr Gln Gln Pro Ser Tyr Tyr Ser Asp Leu Asp Glu Thr Leu Pro
    210                 215                 220

Thr Ile Leu Gln Val Phe Ser Asn Ile Leu Gln His Cys Gly Leu Gln
225                 230                 235                 240

Gly Asp Gly Ala Asn Thr Thr Pro Gln Lys Leu Glu Glu Arg Gly Arg
                245                 250                 255

Leu Thr Pro Ser Asp Met Pro Leu Leu Glu Leu Lys Asp Ile Val Leu
            260                 265                 270

Tyr Leu Cys Asp Thr Cys Thr Thr Leu Trp Ala Phe Leu Asp Ile Phe
        275                 280                 285

Pro Leu Ala Cys Gln Thr Phe Gln Lys His Asp Phe Cys Tyr Arg Leu
    290                 295                 300

Ala Ser Phe Tyr Glu Ala Ala Ile Pro Glu Met Glu Ser Ala Ile Lys
305                 310                 315                 320
```

```
Lys Arg Arg Leu Glu Asp Ser Lys Leu Leu Gly Asp Leu Trp Gln Arg
                325                 330                 335

Leu Ser His Ser Arg Lys Lys Leu Met Glu Ile Phe His Ile Ile Leu
            340                 345                 350

Asn Gln Ile Cys Leu Leu Pro Ile Leu Glu Ser Ser Cys Asp Asn Ile
        355                 360                 365

Gln Gly Phe Ile Glu Glu Phe Leu Gln Ile Phe Ser Ser Leu Leu Gln
    370                 375                 380

Glu Lys Arg Phe Leu Arg Asp Tyr Asp Ala Leu Phe Pro Val Ala Glu
385                 390                 395                 400

Asp Ile Ser Leu Leu Gln Gln Ala Ser Ser Val Leu Asp Glu Thr Arg
                405                 410                 415

Thr Ala Tyr Ile Leu Gln Ala Val Glu Ser Ala Trp Glu Gly Val Asp
            420                 425                 430

Arg Arg Lys Ala Thr Asp Ala Lys Asp Pro Ser Val Ile Glu Glu Pro
        435                 440                 445

Asn Gly Glu Pro Asn Gly Val Thr Val Thr Ala Glu Ala Val Ser Gln
    450                 455                 460

Ala Ser Ser His Pro Glu Asn Ser Glu Glu Glu Glu Cys Met Gly Ala
465                 470                 475                 480

Ala Ala Ala Val Gly Pro Ala Met Cys Gly Val Glu Leu Asp Ser Leu
                485                 490                 495

Ile Ser Gln Val Lys Asp Leu Leu Pro Asp Leu Gly Glu Gly Phe Ile
            500                 505                 510

Leu Ala Cys Leu Glu Tyr Tyr His Tyr Asp Pro Glu Gln Val Ile Asn
        515                 520                 525

Asn Ile Leu Glu Glu Arg Leu Ala Pro Thr Leu Ser Gln Leu Asp Arg
    530                 535                 540

Asn Leu Asp Arg Glu Met Lys Pro Asp Pro Thr Pro Leu Leu Thr Ser
545                 550                 555                 560

Arg His Asn Val Phe Gln Asn Asp Glu Phe Asp Val Phe Ser Arg Asp
                565                 570                 575

Ser Val Asp Leu Ser Arg Val His Lys Gly Lys Ser Thr Arg Lys Glu
            580                 585                 590
```

```
Glu Asn Thr Arg Ser Leu Leu Asn Asp Lys Arg Ala Val Ala Ala Gln
        595                 600                 605

Arg Gln Arg Tyr Glu Gln Tyr Ser Val Val Val Glu Glu Val Pro Leu
    610                 615                 620

Gln Pro Gly Glu Ser Leu Pro Tyr His Ser Val Tyr Tyr Glu Asp Glu
625                 630                 635                 640

Tyr Asp Asp Thr Tyr Asp Gly Asn Gln Val Gly Ala Asn Asp Ala Asp
                645                 650                 655

Ser Asp Asp Glu Leu Ile Ser Arg Arg Pro Phe Thr Ile Pro Gln Val
            660                 665                 670

Leu Arg Thr Lys Val Pro Arg Glu Gly Gln Glu Glu Asp Asp Asp Asp
        675                 680                 685

Glu Glu Asp Asp Ala Asp Glu Glu Ala Pro Lys Pro Asp His Phe Val
    690                 695                 700

Gln Asp Pro Ala Val Leu Arg Glu Lys Ala Glu Ala Arg Arg Met Ala
705                 710                 715                 720

Phe Leu Ala Lys Lys Gly Tyr Arg His Asp Ser Ser Thr Ala Val Ala
                725                 730                 735

Gly Ser Pro Arg Gly His Gly Gln Ser Arg Glu Thr Thr Gln Glu Arg
            740                 745                 750

Arg Lys Lys Glu Ala Asn Lys Ala Thr Arg Ala Asn His Asn Arg Arg
        755                 760                 765

Thr Met Ala Asp Arg Lys Arg Ser Lys Gly Met Ile Pro Ser
    770                 775                 780
```

<210> 6222
<211> 345
<212> PRT
<213> Homo sapiens

<400> 6222

```
Ile Arg His Glu Pro Gly Ser Thr Gln Ser Lys Thr Leu Met Ala Ala
  1               5                  10                  15

Val Phe Leu Val Thr Leu Tyr Glu Tyr Ser Pro Leu Phe Tyr Ile Ala
             20                  25                  30

Val Val Phe Thr Cys Phe Ile Val Thr Thr Gly Leu Val Leu Gly Trp
```

```
        35                  40                  45

Phe Gly Trp Asp Val Pro Val Ile Leu Arg Asn Ser Glu Glu Thr Gln
     50                  55                  60

Phe Ser Thr Arg Val Phe Lys Lys Gln Met Arg Gln Val Lys Asn Pro
 65                  70                  75                  80

Phe Gly Leu Glu Ile Thr Asn Pro Ser Ser Ala Ser Ile Thr Thr Gly
                 85                  90                  95

Ile Thr Leu Thr Thr Asp Cys Leu Glu Asp Ser Leu Leu Thr Cys Tyr
            100                 105                 110

Trp Gly Cys Ser Val Gln Lys Leu Tyr Glu Ala Leu Gln Lys His Val
        115                 120                 125

Tyr Cys Phe Arg Ile Ser Thr Pro Gln Ala Leu Glu Asp Ala Leu Tyr
    130                 135                 140

Ser Glu Tyr Leu Tyr Gln Glu Gln Tyr Phe Ile Lys Lys Asp Ser Lys
145                 150                 155                 160

Glu Glu Ile Tyr Cys Gln Leu Pro Arg Asp Thr Lys Ile Glu Asp Phe
                165                 170                 175

Gly Thr Val Pro Arg Ser Arg Tyr Pro Leu Val Ala Leu Leu Thr Leu
            180                 185                 190

Ala Asp Glu Asp Asp Arg Glu Ile Tyr Asp Ile Ile Ser Met Val Ser
        195                 200                 205

Val Ile His Ile Pro Asp Arg Thr Tyr Lys Leu Ser Cys Arg Ile Leu
    210                 215                 220

Tyr Gln Tyr Leu Leu Leu Ala Gln Gly Gln Phe His Asp Leu Lys Gln
225                 230                 235                 240

Leu Phe Met Ser Ala Asn Asn Asn Phe Thr Pro Ser Asn Asn Ser Ser
                245                 250                 255

Ser Glu Glu Lys Asn Thr Asp Arg Ser Leu Leu Glu Lys Val Gly Leu
            260                 265                 270

Ser Glu Ser Glu Val Glu Pro Ser Glu Glu Asn Ser Lys Asp Cys Val
        275                 280                 285

Val Cys Gln Asn Gly Thr Val Asn Trp Val Leu Leu Pro Cys Arg His
    290                 295                 300

Thr Cys Leu Cys Asp Gly Cys Val Lys Tyr Phe Gln Gln Cys Pro Met
```

305 310 315 320

Cys Arg Gln Phe Val Gln Glu Ser Phe Ala Leu Cys Ser Gln Lys Glu
325 330 335

Gln Asp Lys Asp Lys Pro Lys Thr Leu
340 345

<210> 6223
<211> 133
<212> PRT
<213> Homo sapiens

<400> 6223
Arg Ser Pro Thr Glu Thr Leu Phe Cys Lys Glu Pro Thr Ser Arg Ala
1 5 10 15

Ala Ala Ala Arg Glu Glu Ser Thr Cys Ser Ser Arg Leu Thr Val Arg
20 25 30

Leu Ser Ser Ala Leu Ala Gly Glu Gly Pro Gln Ala Ser Pro Thr Ala
35 40 45

Thr Glu Arg Ala Ser Leu Gln Gly Asn His Ile Arg His Ala Cys Ala
50 55 60

His Ser Arg Leu Lys Thr Ala Ser Lys Met Ser Met Lys Pro Leu Ser
65 70 75 80

Ser Arg Ala Val Ser Phe Asn Thr Ser Glu Tyr Tyr Leu Trp Leu Lys
85 90 95

Gly Cys Met Cys Ile Gly Val Cys Val Cys Val Cys Val Cys Val Phe
100 105 110

Gly Leu Val Trp Arg Met Lys Lys Gly Phe His Leu Gly Ile Cys Lys
115 120 125

Tyr Ser Met Ala Ser
130

<210> 6224
<211> 109
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6224
Gly Thr Ala Glu Glu Leu Lys Arg Asn Ala Glu Thr Gly Asn Leu Pro
1 5 10 15

His Ser Tyr Arg Leu Ile Ser Val Val Ser His Ile Gly Ser Thr Ser
20 25 30

Ser Ser Gly His Tyr Ile Ser Asp Val Tyr Asp Ile Lys Lys Gln Ala
35 40 45

Trp Phe Thr Tyr Asn Asp Leu Glu Val Ser Lys Ile Gln Glu Ala Ala
50 55 60

Val Gln Ser Asp Arg Asp Arg Ser Gly Tyr Ile Phe Phe Tyr Met His
65 70 75 80

Lys Glu Ile Phe Asp Glu Leu Leu Glu Thr Glu Lys Asn Ser Gln Ser
85 90 95

Leu Ser Thr Glu Val Gly Lys Thr Thr Arg Gln Xaa Ser
100 105

<210> 6225
<211> 219
<212> PRT
<213> Homo sapiens

<400> 6225
Pro Gly Ala Ala Trp Ser Arg Pro Asp Leu Arg Gly Cys Cys Thr Gly
1 5 10 15

Pro Gln Pro Ala Leu Arg Met Leu Val Leu Pro Ser Pro Cys Pro Gln
20 25 30

Pro Leu Ala Phe Ser Ser Val Glu Thr Met Glu Gly Pro Pro Arg Arg
35 40 45

Thr Cys Arg Ser Pro Glu Pro Gly Pro Ser Ser Ser Ile Gly Ser Pro
50 55 60

Gln Ala Ser Ser Pro Pro Arg Pro Asn His Tyr Leu Leu Ile Asp Thr
65 70 75 80

Gln Gly Val Pro Tyr Thr Val Leu Val Asp Glu Glu Ser Gln Arg Glu
85 90 95

```
Pro Gly Ala Ser Gly Ala Pro Gly Gln Lys Lys Cys Tyr Ser Cys Pro
            100                 105                 110

Val Cys Ser Arg Val Phe Glu Tyr Met Ser Tyr Leu Gln Arg His Ser
        115                 120                 125

Ile Thr His Ser Glu Val Lys Pro Phe Glu Cys Asp Ile Cys Gly Lys
    130                 135                 140

Ala Phe Lys Arg Ala Ser His Leu Ala Arg His His Ser Ile His Leu
145                 150                 155                 160

Ala Gly Gly Gly Arg Pro His Gly Cys Pro Leu Cys Pro Arg Arg Phe
                165                 170                 175

Arg Asp Ala Gly Glu Leu Ala Gln His Ser Arg Val His Ser Gly Glu
            180                 185                 190

Arg Pro Phe Gln Cys Pro His Cys Pro Arg Arg Phe Met Glu Gln Asn
        195                 200                 205

Thr Leu Gln Lys His Thr Arg Trp Lys His Pro
    210                 215
```

<210> 6226
<211> 163
<212> PRT
<213> Homo sapiens

<400> 6226

```
Val Tyr Leu Phe Ile Tyr Phe Arg Asn Lys Ser Leu Gly Asp Lys Ser
  1               5                  10                  15

Glu Thr Leu Ser Pro Lys Lys Lys Lys Lys Lys Lys Lys Asn Trp Ile
             20                  25                  30

Ala Trp Leu Tyr Ser Gly His Ser Met Gln Ala Gln Phe Cys Cys Ser
         35                  40                  45

Ala Val Cys Ser Ala Phe Leu His Ile Leu Ala Ser Pro Ser Gly Ala
     50                  55                  60

Lys Met Ala Ala Ala Phe Gln Ala Ser His Pro Asp Ser Asp Pro Glu
 65                  70                  75                  80

Lys Leu Pro Ile Pro Thr Trp Val Ser Leu Cys Arg Asn Glu Lys Pro
                 85                  90                  95
```

```
His Pro Ala Ala Glu Thr Ser Pro Ser Ser Val Phe Ser Gly Leu Ile
            100                 105                 110

His Gln Arg Arg Pro Pro Leu Asn Gln Ser Leu Ala Lys Arg Met Gly
        115                 120                 125

Pro Pro Gly Arg Leu Asp Gln Thr Gly Pro Ala Leu Trp Gly Trp Gly
    130                 135                 140

Glu Ala Gln Met Lys Ala Ala Gly Gln Asp Gly Leu Leu Asp Leu Cys
145                 150                 155                 160

Tyr Gln Gln
```

<210> 6227
<211> 185
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (142)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (155)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (168)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (178)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6227
His Arg Arg Lys Gly Lys Asp Arg Val Arg Gln Gly Ala Trp Gly Gly
1 5 10 15

Ala Met Val Pro Met His Leu Leu Gly Arg Leu Glu Lys Pro Leu Leu
20 25 30

Leu Leu Cys Cys Ala Ser Phe Leu Leu Gly Leu Ala Leu Leu Gly Ile
35 40 45

Lys Thr Asp Ile Thr Pro Val Ala Tyr Phe Phe Leu Thr Leu Gly Gly
50 55 60

Phe Phe Leu Phe Ala Tyr Leu Leu Val Arg Phe Leu Glu Trp Gly Leu
65 70 75 80

Arg Ser Gln Leu Gln Ser Met Gln Thr Xaa Ser Pro Gly Xaa Ser Gly
85 90 95

Asn Ala Arg Asp Asn Glu Ala Phe Glu Val Pro Val Tyr Glu Glu Ala
100 105 110

Val Val Gly Leu Glu Ser Gln Cys Arg Pro Lys Ser Trp Thr Asn His
115 120 125

Pro Pro Thr Ala Thr Gly Gly Asp Thr Pro Ser Thr Leu Xaa Xaa Glu
130 135 140

Gln Pro Ser Pro Phe Gln Lys Gly Ser Arg Xaa Lys Pro Lys Leu Gly
145 150 155 160

Thr Glu Ala Glu Trp Ala Leu Xaa Gly Gly Pro Met Gly Pro Arg Lys
165 170 175

Gly Xaa Pro Trp Glu Glu Leu Pro Asn
180 185

<210> 6228
<211> 58
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6228
Val Leu Leu Ser Gln Leu Gln Arg Ala Gly Ala Arg Xaa Pro Ser Gly
1 5 10 15

Leu Pro Gly Ala Pro Gly Thr Ala Leu His His Pro Pro Arg Glu Gly
20 25 30

Asp Ser Glu Ala Gln Xaa Gly Pro Xaa Pro Thr Glu Pro Thr Pro Pro
35 40 45

Tyr Ser Ser Xaa Leu Lys Asn Ile Xaa Gly
50 55

<210> 6229
<211> 231
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (172)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (216)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6229
Met Ser Tyr Cys Asp Glu Ser Arg Leu Ser Asn Leu Leu Arg Arg Ile
1 5 10 15

Thr Arg Glu Xaa Asp Arg Asp Xaa Arg Leu Xaa Thr Val Lys Gln Leu
20 25 30

Lys Glu Phe Ile Gln Gln Pro Glu Asn Lys Leu Val Leu Val Lys Gln
35 40 45

Leu Asp Ile Leu Ala Ala Xaa His Asp Val Leu Asn Glu Ser Ser Lys
50 55 60

Leu Leu Gln Glu Leu Arg Gln Glu Gly Ala Cys Cys Leu Gly Leu Leu
65 70 75 80

Cys Ala Ser Leu Ser Tyr Glu Ala Glu Lys Ile Phe Lys Trp Ile Phe
85 90 95

```
Ser Lys Phe Ser Ser Ser Ala Lys Asp Glu Val Lys Leu Leu Tyr Leu
            100                 105                 110

Cys Ala Thr Tyr Lys Ala Leu Glu Thr Val Gly Glu Lys Lys Ala Phe
        115                 120                 125

Ser Ser Val Met Gln Leu Val Met Thr Ser Leu Gln Ser Ile Leu Glu
    130                 135                 140

Asn Val Asp Thr Pro Glu Leu Leu Cys Lys Cys Val Lys Cys Ile Leu
145                 150                 155                 160

Leu Val Ala Arg Cys Tyr Pro His Ile Phe Ser Xaa Asn Phe Arg Asp
                165                 170                 175

Thr Val Xaa Ile Leu Val Gly Trp His Arg Asp His Thr Gln Lys Pro
            180                 185                 190

Ser Leu Thr Gln Gln Val Ser Gly Trp Leu Gln Ser Leu Glu Pro Phe
        195                 200                 205

Trp Val Ala Asp Leu Ala Phe Xaa Thr Xaa Leu Leu Gly Ser Val Ser
    210                 215                 220

Arg Arg His Gly Ser Ile Cys
225                 230
```

<210> 6230
<211> 305
<212> PRT
<213> Homo sapiens

<400> 6230

```
Asp Trp Val Ser Val Gly Gly Ala Trp Val Trp Arg Ala Gly Gln Gly
  1               5                  10                  15

Leu Leu Gly Leu Gly Asp Gly Asp Gly Ala Gly Ser Gln Arg Arg Gln
             20                  25                  30

Gly Leu Arg Ala Glu Glu Arg Thr Trp Ser Pro Gly Ser Arg Val Gly
         35                  40                  45

Asp Ala Ala Arg His Arg Cys Phe Leu Lys Val Ser Arg Leu Glu Ala
     50                  55                  60

Gln Leu Leu Leu Glu Arg Tyr Pro Glu Cys Gly Asn Leu Leu Leu Arg
 65                  70                  75                  80
```

```
Pro Ser Gly Asp Gly Ala Asp Gly Val Ser Val Thr Thr Arg Gln Met
                 85                  90                  95

His Asn Gly Thr His Val Val Arg His Tyr Lys Val Lys Arg Glu Gly
            100                 105                 110

Pro Lys Tyr Val Ile Asp Val Glu Gln Pro Phe Ser Cys Thr Ser Leu
        115                 120                 125

Asp Ala Val Val Asn Tyr Phe Val Ser His Thr Lys Lys Ala Leu Val
    130                 135                 140

Pro Phe Leu Leu Asp Glu Asp Tyr Glu Lys Val Leu Gly Tyr Val Glu
145                 150                 155                 160

Ala Asp Lys Glu Asn Gly Glu Asn Val Trp Val Ala Pro Ser Ala Pro
                165                 170                 175

Gly Pro Gly Pro Ala Pro Cys Thr Gly Gly Pro Lys Pro Leu Ser Pro
            180                 185                 190

Ala Ser Ser Gln Asp Lys Leu Pro Pro Leu Pro Pro Leu Pro Asn Gln
        195                 200                 205

Glu Glu Asn Tyr Val Thr Pro Ile Gly Asp Gly Pro Ala Val Asp Tyr
    210                 215                 220

Glu Asn Gln Asp Val Ala Ser Ser Ser Trp Pro Val Ile Leu Lys Pro
225                 230                 235                 240

Lys Lys Leu Pro Lys Pro Pro Ala Lys Leu Pro Lys Pro Pro Val Gly
                245                 250                 255

Pro Lys Pro Glu Pro Lys Val Phe Asn Gly Gly Leu Gly Arg Lys Leu
            260                 265                 270

Pro Val Ser Ser Ala Gln Pro Leu Phe Pro Thr Ala Gly Leu Ala Asp
        275                 280                 285

Met Thr Ala Glu Leu Gln Lys Lys Leu Glu Lys Arg Arg Ala Leu Glu
    290                 295                 300

His
305
```

<210> 6231
<211> 210
<212> PRT
<213> Homo sapiens

<400> 6231

```
Thr Met Ala Ser Met Gly Leu Gln Val Met Gly Ile Ala Leu Ala Val
  1               5                  10                  15

Leu Gly Trp Leu Ala Val Met Leu Cys Cys Ala Leu Pro Met Trp Arg
             20                  25                  30

Val Thr Ala Phe Ile Gly Ser Asn Ile Val Thr Ser Gln Thr Ile Trp
         35                  40                  45

Glu Gly Leu Trp Met Asn Cys Val Val Gln Ser Thr Gly Gln Met Gln
     50                  55                  60

Cys Lys Val Tyr Asp Ser Leu Leu Ala Leu Pro Gln Asp Leu Gln Ala
 65                  70                  75                  80

Ala Arg Ala Leu Val Ile Ile Ser Ile Ile Val Ala Ala Leu Gly Val
                 85                  90                  95

Leu Leu Ser Val Val Gly Gly Lys Cys Thr Asn Cys Leu Glu Asp Glu
            100                 105                 110

Ser Ala Lys Ala Lys Thr Met Ile Val Ala Gly Val Val Phe Leu Leu
        115                 120                 125

Ala Gly Leu Met Val Ile Val Pro Val Ser Trp Thr Ala His Asn Ile
    130                 135                 140

Ile Gln Asp Phe Tyr Asn Pro Leu Val Ala Ser Gly Gln Lys Arg Glu
145                 150                 155                 160

Met Gly Ala Ser Leu Tyr Val Gly Trp Ala Ala Ser Gly Leu Leu Leu
                165                 170                 175

Leu Gly Gly Gly Leu Leu Cys Cys Asn Cys Pro Pro Arg Thr Asp Lys
            180                 185                 190

Pro Tyr Ser Ala Lys Tyr Ser Ala Ala Arg Ser Ala Ala Ala Ser Asn
        195                 200                 205

Tyr Val
    210
```

<210> 6232
<211> 88
<212> PRT
<213> Homo sapiens

<400> 6232
Ser Phe Asn Pro Trp Pro Pro Pro Arg Asn Ser Asp Phe Ser Arg Glu
1 5 10 15

Glu Glu Ala Ala Gly Ala Val Gly Leu Gly Leu His Arg Ala Gly Arg
20 25 30

Ala Val Gly Lys Ala Gly Glu Leu Leu Cys Cys Trp Ala Ser Leu Trp
35 40 45

Pro Ser Leu Pro Thr Leu Arg Cys Met Lys Cys Met Tyr Arg Pro Glu
50 55 60

Met Phe Ile Gln Pro Ile Lys Met Glu Phe Pro Tyr Leu Ser Val Lys
65 70 75 80

Lys Lys Lys Lys Lys Lys Leu Glu
85

<210> 6233
<211> 33
<212> PRT
<213> Homo sapiens

<400> 6233
Asp Asn Lys Leu Ile Leu Asn Ala Ile Tyr Val Leu Ser Leu Leu Trp
1 5 10 15

His Leu Phe Arg Ser Cys Ser Asn His Cys Ser Arg Ala Leu Gln Ile
20 25 30

Lys

<210> 6234
<211> 63
<212> PRT
<213> Homo sapiens

<400> 6234
Leu Leu Leu Leu Leu Gly Met Ala Ala Arg Ile Val Glu Arg Arg Gly
1 5 10 15

Leu Glu Ser Trp Ser Asn Pro Gly Leu Lys Ser Gly Leu Val Ile Phe
20 25 30

Gln Leu Leu Ser Trp Val Ser Phe Ala Asn Phe Leu Ser Phe Ile Ser

35 40 45

Leu Ile Asn Thr Val Gly His Asn Ser Tyr Ser Cys Ile Glu Asn
50 55 60

<210> 6235
<211> 178
<212> PRT
<213> Homo sapiens

<400> 6235
Gln Leu Leu Asp Lys His Ser Ala Ala Gly Phe Ala Met Ala Ala Ile
1 5 10 15

Pro Pro Asp Ser Trp Gln Pro Pro Asn Val Tyr Leu Glu Thr Ser Met
20 25 30

Gly Ile Ile Val Leu Glu Leu Tyr Trp Lys His Ala Pro Lys Thr Cys
35 40 45

Lys Asn Phe Ala Glu Leu Ala Arg Arg Gly Tyr Tyr Asn Gly Thr Lys
50 55 60

Phe His Arg Ile Ile Lys Asp Phe Met Ile Gln Gly Gly Asp Pro Thr
65 70 75 80

Gly Thr Gly Arg Gly Gly Ala Ser Ile Tyr Gly Lys Gln Phe Glu Asp
85 90 95

Glu Leu His Pro Asp Leu Lys Phe Thr Gly Ala Gly Ile Leu Ala Met
100 105 110

Ala Asn Ala Gly Pro Asp Thr Asn Gly Ser Gln Phe Phe Val Thr Leu
115 120 125

Ala Pro Thr Gln Trp Leu Asp Gly Lys His Thr Ile Phe Gly Arg Val
130 135 140

Cys Gln Gly Ile Gly Met Val Asn Arg Val Gly Met Val Glu Thr Asn
145 150 155 160

Ser Gln Asp Arg Pro Val Asp Asp Val Lys Ile Ile Lys Ala Tyr Pro
165 170 175

Ser Gly

<210> 6236
<211> 175
<212> PRT
<213> Homo sapiens

<400> 6236
Met Asp Val Lys Thr Leu Val Gln Gln Leu Tyr Thr Thr Leu Cys Ile
1 5 10 15

Glu Gln His Gln Leu Asn Lys Glu Arg Glu Leu Ile Glu Arg Leu Glu
20 25 30

Asp Leu Lys Glu Gln Leu Ala Pro Leu Glu Lys Val Arg Ile Glu Ile
35 40 45

Ser Arg Lys Ala Glu Lys Arg Thr Thr Leu Val Leu Trp Gly Gly Leu
50 55 60

Ala Tyr Met Ala Thr Gln Phe Gly Ile Leu Ala Arg Leu Thr Trp Trp
65 70 75 80

Glu Tyr Ser Trp Asp Ile Met Glu Pro Val Thr Tyr Phe Ile Thr Tyr
85 90 95

Gly Ser Ala Met Ala Met Tyr Ala Tyr Phe Val Met Thr Arg Gln Glu
100 105 110

Tyr Val Tyr Pro Glu Ala Arg Asp Arg Gln Tyr Leu Leu Phe Phe His
115 120 125

Lys Gly Ala Lys Lys Ser Arg Phe Asp Leu Glu Lys Tyr Asn Gln Leu
130 135 140

Lys Asp Ala Ile Ala Gln Ala Glu Met Asp Leu Lys Arg Leu Arg Asp
145 150 155 160

Pro Leu Gln Val His Leu Pro Leu Arg Gln Ile Gly Glu Lys Asp
165 170 175

<210> 6237
<211> 461
<212> PRT
<213> Homo sapiens

<400> 6237
Thr Arg Pro Lys Leu Cys Ala Gly Ile Met Ile Thr Ala Ser His Asn
1 5 10 15

Pro Lys Gln Asp Asn Gly Tyr Lys Val Tyr Trp Asp Asn Gly Ala Gln

```
            20                  25                  30

Ile Ile Ser Pro His Asp Lys Gly Ile Ser Gln Ala Ile Glu Glu Asn
        35                  40                  45

Leu Glu Pro Trp Pro Gln Ala Trp Asp Asp Ser Leu Ile Asp Ser Ser
    50                  55                  60

Pro Leu Leu His Asn Pro Ser Ala Ser Ile Asn Asn Asp Tyr Phe Glu
65                  70                  75                  80

Asp Leu Lys Lys Tyr Cys Phe His Arg Ser Val Asn Arg Glu Thr Lys
                85                  90                  95

Val Lys Phe Val His Thr Ser Val His Gly Val Gly His Ser Phe Val
            100                 105                 110

Gln Ser Ala Phe Lys Ala Phe Asp Leu Val Pro Pro Glu Ala Val Pro
        115                 120                 125

Glu Gln Lys Asp Pro Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn
    130                 135                 140

Pro Glu Glu Gly Lys Gly Val Leu Thr Leu Ser Phe Ala Leu Ala Asp
145                 150                 155                 160

Lys Thr Lys Ala Arg Ile Val Leu Ala Asn Asp Pro Asp Ala Asp Arg
                165                 170                 175

Leu Ala Val Ala Glu Lys Gln Asp Ser Gly Glu Trp Arg Val Phe Ser
            180                 185                 190

Gly Asn Glu Leu Gly Ala Leu Leu Gly Trp Trp Leu Phe Thr Ser Trp
        195                 200                 205

Lys Glu Lys Asn Gln Asp Arg Ser Ala Leu Lys Asp Thr Tyr Met Leu
    210                 215                 220

Ser Ser Thr Val Ser Ser Lys Ile Leu Arg Ala Ile Ala Leu Lys Glu
225                 230                 235                 240

Gly Phe His Phe Glu Glu Thr Leu Thr Gly Phe Lys Trp Met Gly Asn
                245                 250                 255

Arg Ala Lys Gln Leu Ile Asp Gln Gly Lys Thr Val Leu Phe Ala Phe
            260                 265                 270

Glu Glu Ala Ile Gly Tyr Met Cys Cys Pro Phe Val Leu Asp Lys Asp
        275                 280                 285

Gly Val Ser Ala Ala Val Ile Ser Ala Glu Leu Ala Ser Phe Leu Ala
```

```
    290                 295                 300

Thr Lys Asn Leu Ser Leu Ser Gln Gln Leu Lys Ala Ile Tyr Val Glu
305                 310                 315                 320

Tyr Gly Tyr His Ile Thr Lys Ala Ser Tyr Phe Ile Cys His Asp Gln
                325                 330                 335

Glu Thr Ile Lys Lys Leu Phe Glu Asn Leu Arg Asn Tyr Asp Gly Lys
            340                 345                 350

Asn Asn Tyr Pro Lys Ala Cys Gly Lys Phe Glu Ile Ser Ala Ile Arg
        355                 360                 365

Asp Leu Thr Thr Gly Tyr Asp Asp Ser Gln Pro Asp Lys Lys Ala Val
    370                 375                 380

Leu Pro Thr Ser Lys Ser Ser Gln Met Ile Thr Phe Thr Phe Ala Asn
385                 390                 395                 400

Gly Gly Val Ala Thr Met Arg Thr Ser Gly Thr Glu Pro Lys Ile Lys
                405                 410                 415

Tyr Tyr Ala Glu Leu Cys Ala Pro Pro Gly Asn Ser Asp Pro Glu Gln
            420                 425                 430

Leu Lys Lys Glu Leu Asn Glu Leu Val Ser Ala Ile Glu Glu His Phe
        435                 440                 445

Phe Gln Pro Gln Lys Tyr Asn Leu Gln Pro Lys Ala Asp
    450                 455                 460
```

<210> 6238
<211> 925
<212> PRT
<213> Homo sapiens

<400> 6238

```
Ala Arg Gly Glu Ile Thr Gly Arg Cys Thr Ala Met Gly Pro Phe Lys
  1               5                  10                  15

Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu Glu Gly Ala Leu Ser
             20                  25                  30

Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr Glu Gly Ile Val Val
         35                  40                  45

Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr Leu Ile Gln Gln Ile
     50                  55                  60
```

```
Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu Phe Glu Ala Thr Gly
 65                  70                  75                  80

Lys Arg Phe Tyr Phe Lys Asn Val Ala Ile Leu Ile Pro Glu Thr Trp
                 85                  90                  95

Lys Thr Lys Ala Asp Tyr Val Arg Pro Lys Leu Glu Thr Tyr Lys Asn
            100                 105                 110

Ala Asp Val Leu Val Ala Glu Ser Thr Pro Pro Gly Asn Asp Glu Pro
        115                 120                 125

Tyr Thr Glu Gln Met Gly Asn Cys Gly Glu Lys Gly Glu Arg Ile His
    130                 135                 140

Leu Thr Pro Asp Phe Ile Ala Gly Lys Lys Leu Ala Glu Tyr Gly Pro
145                 150                 155                 160

Gln Gly Arg Ala Phe Val His Glu Trp Ala His Leu Arg Trp Gly Val
                165                 170                 175

Phe Asp Glu Tyr Asn Asn Asp Glu Lys Phe Tyr Leu Ser Asn Gly Arg
            180                 185                 190

Ile Gln Ala Val Arg Cys Ser Ala Gly Ile Thr Gly Thr Asn Val Val
        195                 200                 205

Lys Lys Cys Gln Gly Gly Ser Cys Tyr Thr Lys Arg Cys Thr Phe Asn
    210                 215                 220

Lys Val Thr Gly Leu Tyr Glu Lys Gly Cys Glu Phe Val Leu Gln Ser
225                 230                 235                 240

Arg Gln Thr Glu Lys Ala Ser Ile Met Phe Ala Gln His Val Asp Ser
                245                 250                 255

Ile Val Glu Phe Cys Thr Glu Gln Asn His Asn Lys Glu Ala Pro Asn
            260                 265                 270

Lys Gln Asn Gln Lys Cys Asn Leu Arg Ser Thr Trp Glu Val Ile Arg
        275                 280                 285

Asp Ser Glu Asp Phe Lys Lys Thr Thr Pro Met Thr Thr Gln Pro Pro
    290                 295                 300

Asn Pro Thr Phe Ser Leu Leu Gln Ile Gly Gln Arg Ile Val Cys Leu
305                 310                 315                 320

Val Leu Asp Lys Ser Gly Ser Met Ala Thr Gly Asn Arg Leu Asn Arg
                325                 330                 335
```

```
Leu Asn Gln Ala Gly Gln Leu Phe Leu Leu Gln Thr Val Glu Leu Gly
            340                 345                 350

Ser Trp Val Gly Met Val Thr Phe Asp Ser Ala Ala His Val Gln Ser
        355                 360                 365

Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg Asp Thr Leu Ala Lys
    370                 375                 380

Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu
385                 390                 395                 400

Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser
                405                 410                 415

Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly Cys
            420                 425                 430

Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile His Thr Val Ala Leu
        435                 440                 445

Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu Ser Lys Met Thr Gly
    450                 455                 460

Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln Asn Asn Gly Leu Ile
465                 470                 475                 480

Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly Ala Val Ser Gln Arg
                485                 490                 495

Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu Gln Asn Ser Gln Trp
            500                 505                 510

Met Asn Gly Thr Val Ile Val Asp Ser Thr Val Gly Lys Asp Thr Leu
        515                 520                 525

Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln Ile Leu Leu Trp Asp
    530                 535                 540

Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val Asp Lys Asn Thr Lys
545                 550                 555                 560

Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys Val Gly Thr Trp Lys
                565                 570                 575

Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser
            580                 585                 590

Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr
        595                 600                 605
```

```
Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn
    610                 615                 620

Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu
625                 630                 635                 640

Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn
                645                 650                 655

Gly Ala Gly Ala Asp Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg Tyr
            660                 665                 670

Phe Thr Thr Tyr Asp Thr Asn Gly Arg Tyr Ser Val Lys Val Arg Ala
        675                 680                 685

Leu Gly Gly Val Asn Ala Ala Arg Arg Arg Val Ile Pro Gln Gln Ser
    690                 695                 700

Gly Ala Leu Tyr Ile Pro Gly Trp Ile Glu Asn Asp Glu Ile Gln Trp
705                 710                 715                 720

Asn Pro Pro Arg Pro Glu Ile Asn Lys Asp Asp Val Gln His Lys Gln
                725                 730                 735

Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser Phe Val Ala Ser Asp
            740                 745                 750

Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro Pro Gly Gln Ile Thr
        755                 760                 765

Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu Ile Asn Leu Thr Trp
    770                 775                 780

Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr Ala His Lys Tyr Ile
785                 790                 795                 800

Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg Asp Lys Phe Asn Glu
                805                 810                 815

Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro Lys Glu Ala Asn Ser
            820                 825                 830

Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile Thr Phe Glu Asn Gly
        835                 840                 845

Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp Lys Val Asp Leu Lys
    850                 855                 860

Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu Phe Ile Pro Pro Gln
865                 870                 875                 880
```

```
Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys Pro
                885                 890                 895

Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile His Ile Leu Lys Ile
            900                 905                 910

Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser Ile Ala
        915                 920                 925
```

<210> 6239
<211> 311
<212> PRT
<213> Homo sapiens

<400> 6239

```
Val Leu Lys Phe Leu Leu Leu Gln Thr Met Asp Glu Gln Ser Gln Gly
  1               5                  10                  15

Met Gln Gly Pro Pro Val Pro Gln Phe Gln Pro Gln Lys Ala Leu Arg
             20                  25                  30

Pro Asp Met Gly Tyr Asn Thr Leu Ala Asn Phe Arg Ile Glu Lys Lys
         35                  40                  45

Ile Gly Arg Gly Gln Phe Ser Glu Val Tyr Arg Ala Ala Cys Leu Leu
     50                  55                  60

Asp Gly Val Pro Val Ala Leu Lys Lys Val Gln Ile Phe Asp Leu Met
 65                  70                  75                  80

Asp Ala Lys Ala Arg Ala Asp Cys Ile Lys Glu Ile Asp Leu Leu Lys
                 85                  90                  95

Gln Leu Asn His Pro Asn Val Ile Lys Tyr Tyr Ala Ser Phe Ile Glu
            100                 105                 110

Asp Asn Glu Leu Asn Ile Val Leu Glu Leu Ala Asp Ala Gly Asp Leu
        115                 120                 125

Ser Arg Met Ile Lys His Phe Lys Lys Gln Lys Arg Leu Ile Pro Glu
    130                 135                 140

Arg Thr Val Trp Lys Tyr Phe Val Gln Leu Cys Ser Ala Leu Glu His
145                 150                 155                 160

Met His Ser Arg Arg Val Met His Arg Asp Ile Lys Pro Ala Asn Val
                165                 170                 175
```

```
Phe Ile Thr Ala Thr Gly Val Val Lys Leu Gly Asp Leu Gly Leu Gly
            180                 185                 190

Arg Phe Phe Ser Ser Lys Thr Thr Ala Ala His Ser Leu Val Gly Thr
        195                 200                 205

Pro Tyr Tyr Met Ser Pro Glu Arg Ile His Glu Asn Gly Tyr Asn Phe
    210                 215                 220

Lys Ser Asp Ile Trp Ser Leu Gly Cys Leu Leu Tyr Glu Met Ala Ala
225                 230                 235                 240

Leu Gln Ser Pro Phe Tyr Gly Asp Lys Met Asn Leu Tyr Ser Leu Cys
                245                 250                 255

Lys Lys Ile Glu Gln Cys Asp Tyr Pro Pro Leu Pro Ser Asp His Tyr
            260                 265                 270

Ser Glu Glu Leu Arg Gln Leu Val Asn Met Cys Ile Asn Pro Asp Pro
        275                 280                 285

Glu Lys Arg Pro Asp Val Thr Tyr Val Tyr Asp Val Ala Lys Arg Met
    290                 295                 300

His Ala Cys Thr Ala Ser Ser
305                 310
```

<210> 6240
<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (220)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (248)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (254)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (258)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6240
Gly Gly His Leu Leu Pro Gly Pro Ala Ala Val His Cys Ala Ser Xaa
1 5 10 15

Val Leu Leu His Pro Pro Pro Ala Asp Leu Cys Trp Tyr Cys Arg Asp
20 25 30

Trp Phe Leu Lys Gly Asn Leu Leu Ile Ile Ile Val Ser Val Leu Ile
35 40 45

Ile Leu Pro Leu Ala Leu Met Lys His Leu Gly Tyr Leu Gly Tyr Thr
50 55 60

Ser Gly Leu Ser Leu Thr Cys Met Leu Phe Phe Leu Val Ser Val Ile
65 70 75 80

Tyr Lys Lys Phe Gln Leu Gly Cys Ala Ile Gly His Asn Glu Thr Ala
85 90 95

Met Glu Ser Glu Ala Leu Val Gly Leu Pro Ser Gln Gly Leu Asn Ser
100 105 110

Ser Cys Glu Ala Gln Met Phe Thr Val Asp Ser Gln Met Ser Tyr Thr
115 120 125

Val Pro Ile Met Ala Phe Ala Phe Val Cys His Pro Glu Val Leu Pro
130 135 140

Ile Tyr Thr Glu Leu Cys Arg Ser Thr Thr Ser Thr Pro Gln Ala Leu
145 150 155 160

Gln Ala Gln Asp Ala Gly Arg Gly Gln Arg Val His Trp Gly His Val
165 170 175

Leu His Val Trp Ala His Ser Asn Leu Trp Ile Pro His Leu Leu Gln
180 185 190

Gln Cys Glu Gly Gly Asp Ala Ala His Val Gln Pro Glu Gly Pro Ala
195 200 205

His Pro Leu Cys Ala Pro Gly Arg Ala Ala Ser Xaa Val Thr Pro His
210 215 220

```
Cys Ala Ser Arg Ala Gly Ser Tyr Pro Pro Gly Pro Gly Ser Asn Cys
225                 230                 235                 240

Phe Ser Gln Ala Arg Ala Phe Xaa Leu Ala Thr Thr Leu Xaa Ala Ile
                245                 250                 255

Ser Xaa
```

<210> 6241
<211> 149
<212> PRT
<213> Homo sapiens

<400> 6241

```
Val His Leu Leu Leu Phe Ser Arg Pro Tyr Asp Gly Lys Trp Ser Lys
  1               5                  10                  15

Thr Met Val Gly Phe Gly Pro Glu Asp Asp His Phe Val Ala Glu Leu
             20                  25                  30

Thr Tyr Asn Tyr Gly Val Gly Asp Tyr Lys Leu Gly Asn Asp Phe Met
         35                  40                  45

Gly Ile Thr Leu Ala Ser Ser Gln Ala Val Ser Asn Ala Arg Lys Leu
     50                  55                  60

Glu Trp Pro Leu Thr Glu Val Ala Glu Gly Val Phe Glu Thr Glu Ala
 65                  70                  75                  80

Pro Gly Gly Tyr Lys Phe Tyr Leu Gln Asn Arg Ser Leu Pro Gln Ser
                85                  90                  95

Asp Pro Val Leu Lys Val Thr Leu Ala Val Ser Asp Leu Gln Lys Ser
            100                 105                 110

Leu Asn Tyr Trp Cys Asn Leu Leu Gly Met Lys Ile Tyr Glu Lys Asp
        115                 120                 125

Glu Glu Lys Gln Arg Ala Leu Leu Gly Tyr Ala Asp Asn Gln Val Ser
    130                 135                 140

Asn Leu Gly Glu Glu
145
```

<210> 6242
<211> 126

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (126)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6242
Leu Ser Leu Arg Thr Arg Glu Thr Pro Ala Pro Pro Arg Cys Glu Ala
1 5 10 15

Ala Ser Gln Gly Arg Val Gly Trp Arg Ala Asp Ala Ala Ala Glu Glu
20 25 30

Ala Val Arg Ser Val Trp Asn Arg Thr Arg Asp Arg Gly Thr Met Ala
35 40 45

Pro Gln Asn Leu Ser Thr Phe Cys Leu Leu Leu Leu Tyr Leu Ile Gly
50 55 60

Ala Val Ile Ala Gly Arg Asp Phe Tyr Lys Ile Leu Gly Val Pro Arg
65 70 75 80

Ser Ala Ser Ile Lys Asp Ile Lys Lys Ala Tyr Arg Lys Leu Ala Leu
85 90 95

Gln Leu His Pro Asp Arg Asn Pro Asp Asp Pro Gln Ala Gln Glu Lys
100 105 110

Phe Gln Asp Leu Gly Ala Ala Tyr Glu Val Leu Val Arg Xaa
115 120 125

<210> 6243
<211> 384
<212> PRT
<213> Homo sapiens

<400> 6243
Gly Ile Leu Ala His Ser Leu Ser Pro Thr Leu Leu Ser His Arg Cys
1 5 10 15

Gln Glu Glu Cys Pro Phe Gly Ser Phe Gly Phe Gln Cys Ser Gln Arg
20 25 30

Cys Asp Cys His Asn Gly Gly Gln Cys Ser Pro Thr Thr Gly Ala Cys
35 40 45

Glu Cys Glu Pro Gly Tyr Lys Gly Pro Arg Cys Gln Glu Arg Leu Cys

```
     50                  55                  60

Pro Glu Gly Leu His Gly Pro Gly Cys Thr Leu Pro Cys Pro Cys Asp
 65                  70                  75                  80

Ala Asp Asn Thr Ile Ser Cys His Pro Val Thr Gly Ala Cys Thr Cys
                85                  90                  95

Gln Pro Gly Trp Ser Gly His His Cys Asn Glu Ser Cys Pro Val Gly
            100                 105                 110

Tyr Tyr Gly Asp Gly Cys Gln Leu Pro Cys Thr Cys Gln Asn Gly Ala
        115                 120                 125

Asp Cys His Ser Ile Thr Gly Gly Cys Thr Cys Ala Pro Gly Phe Met
    130                 135                 140

Gly Glu Val Cys Ala Val Ser Cys Ala Ala Gly Thr Tyr Gly Pro Asn
145                 150                 155                 160

Cys Ser Ser Ile Cys Ser Cys Asn Asn Gly Gly Thr Cys Ser Pro Val
                165                 170                 175

Asp Gly Ser Cys Thr Cys Lys Glu Gly Trp Gln Gly Leu Asp Cys Thr
            180                 185                 190

Leu Pro Cys Pro Ser Gly Thr Trp Gly Leu Asn Cys Asn Glu Ser Cys
        195                 200                 205

Thr Cys Ala Asn Gly Ala Ala Cys Ser Pro Ile Asp Gly Ser Cys Ser
    210                 215                 220

Cys Thr Pro Gly Trp Leu Gly Asp Thr Cys Glu Leu Pro Cys Pro Asp
225                 230                 235                 240

Gly Thr Phe Gly Leu Asn Cys Ser Glu His Cys Asp Cys Ser His Ala
                245                 250                 255

Asp Gly Cys Asp Pro Val Thr Gly His Cys Cys Cys Leu Ala Gly Trp
            260                 265                 270

Thr Gly Ile Arg Cys Asp Ser Thr Cys Pro Pro Gly Arg Trp Gly Pro
        275                 280                 285

Asn Cys Ser Val Ser Cys Ser Cys Glu Asn Gly Gly Ser Cys Ser Pro
    290                 295                 300

Glu Asp Gly Ser Cys Glu Cys Ala Pro Gly Phe Arg Gly Pro Leu Cys
305                 310                 315                 320

Gln Arg Ile Cys Pro Pro Gly Phe Tyr Gly His Gly Cys Ala Gln Pro
```

```
                325                 330                 335

Cys Pro Leu Cys Val His Ser Ser Arg Pro Cys His His Ile Ser Gly
            340                 345                 350

Ile Cys Glu Cys Leu Pro Gly Phe Ser Gly Ala Leu Cys Asn Gln Ala
        355                 360                 365

Ser Lys Trp Gln Lys Gln Ile Leu Ile Pro Thr Cys Met Leu Lys Gly
    370                 375                 380
```

<210> 6244
<211> 159
<212> PRT
<213> Homo sapiens

<400> 6244

```
Ile His Met Ala Leu Leu Arg Lys Ile Asn Gln Val Leu Leu Phe Leu
  1               5                  10                  15

Leu Ile Val Thr Leu Cys Val Ile Leu Tyr Lys Lys Val His Lys Gly
             20                  25                  30

Thr Val Pro Lys Asn Asp Ala Asp Asp Glu Ser Glu Thr Pro Glu Glu
         35                  40                  45

Leu Glu Glu Glu Ile Pro Val Val Ile Cys Ala Ala Ala Gly Arg Met
     50                  55                  60

Gly Ala Thr Met Ala Ala Ile Asn Ser Ile Tyr Ser Asn Thr Asp Ala
 65                  70                  75                  80

Asn Ile Leu Phe Tyr Val Val Gly Leu Arg Asn Thr Leu Thr Arg Ile
                 85                  90                  95

Arg Lys Trp Ile Glu His Ser Lys Leu Arg Glu Ile Asn Phe Lys Ile
            100                 105                 110

Val Glu Phe Asn Pro Met Val Leu Lys Gly Lys Ile Arg Pro Asp Ser
        115                 120                 125

Ser Arg Pro Glu Leu Leu Gln Pro Leu Asn Phe Val Arg Phe Tyr Leu
    130                 135                 140

Pro Leu Leu Ile His Gln His Glu Glu Ser His Leu Phe Gly Arg
145                 150                 155
```

<210> 6245
<211> 27
<212> PRT
<213> Homo sapiens

<400> 6245
Arg Gln Pro Lys Cys Pro Ser Thr Asp Glu Trp Ile Gln Lys Met Trp
1 5 10 15

Tyr Val Tyr Thr Met Gly Thr Ser Gln Pro Gly
20 25

<210> 6246
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6246
Asp Leu Met Ile Leu Asn Thr Gly Val Ser Pro Ala Gln Ala Leu Ser
1 5 10 15

Leu Pro Ala Ala Ser His Val Arg His Asp Leu Leu Leu Leu Ala Phe
20 25 30

His His Asp Cys Glu Ala Phe Pro Ala Thr Trp Asn Cys Lys Ser Ile
35 40 45

Lys Pro Leu Phe Phe Tyr Lys Trp Pro Ser Leu Lys Tyr Xaa Phe Ile
50 55 60

Asn Ser Val Lys Trp Thr Ser Thr Val Asn Trp Tyr Gln
65 70 75

<210> 6247
<211> 251
<212> PRT
<213> Homo sapiens

<220>

<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (5)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6247
Xaa Leu Val Leu Xaa Ser Tyr Leu Gly Asp Thr Ile Glu Gly Thr Pro
1 5 10 15

Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg Pro Glu Gly
20 25 30

Ser Arg Gly Cys Gly Lys Gln His Ile Ser Asp Ser Ser Trp Leu Leu
35 40 45

Asp Ser Ala Gly Arg Glu Gly Arg Leu Val Ala Met Ser Gln Gln Lys
50 55 60

Cys Ile Val Ile Phe Ala Leu Val Cys Cys Phe Ala Ile Leu Val Ala
65 70 75 80

Leu Ile Phe Ser Ala Val Asp Ile Met Gly Glu Asp Glu Asp Gly Leu
85 90 95

Ser Glu Lys Asn Cys Gln Asn Lys Cys Arg Ile Ala Leu Val Glu Asn
100 105 110

Ile Pro Glu Gly Leu Asn Tyr Ser Glu Asn Ala Pro Phe His Leu Ser
115 120 125

Leu Phe Gln Gly Trp Met Asn Leu Leu Asn Met Ala Lys Lys Ser Val
130 135 140

Asp Ile Val Ser Ser His Trp Asp Leu Asn His Thr His Pro Ser Ala
145 150 155 160

Cys Gln Gly Gln Arg Leu Phe Glu Lys Leu Leu Gln Leu Thr Ser Gln
165 170 175

Asn Ile Glu Ile Lys Leu Val Ser Asp Val Thr Ala Asp Ser Lys Val
180 185 190

Leu Glu Ala Leu Lys Leu Lys Gly Ala Glu Val Thr Tyr Met Asn Met
195 200 205

Thr Ala Tyr Asn Lys Gly Arg Leu Gln Ser Ser Phe Trp Ile Val Asp
210 215 220

```
Lys Gln His Val Tyr Ile Gly Ser Ala Gly Leu Asp Trp Gln Ser Leu
225                 230                 235                 240

Gly Gln Val His Ile Leu Leu Tyr Ser Cys Lys
                245                 250
```

<210> 6248
<211> 137
<212> PRT
<213> Homo sapiens

<400> 6248

```
Lys Gly Val Thr Glu Phe Gln Gln Phe Ser Asp Phe Tyr Ile Leu Phe
  1               5                  10                  15

Leu Phe Leu Ser Asn Pro Cys Leu Leu Ser Pro Gly Gly Lys Tyr Ile
             20                  25                  30

Phe Phe Asn Val Phe Pro Ala Phe Leu Pro Lys Cys Val Phe Phe Phe
         35                  40                  45

Gly Leu Leu Tyr Pro Ala Ser Ser Ala Val Pro Gly Ile Gly Pro Ser
     50                  55                  60

Leu Gln Lys Pro Phe Gln Glu Tyr Leu Glu Ala Gln Arg Gln Lys Leu
 65                  70                  75                  80

His His Lys Ser Glu Met Gly Thr Pro Gln Gly Glu Asn Trp Leu Ser
                85                  90                  95

Trp Met Phe Glu Lys Leu Val Val Val Met Val Cys Tyr Phe Ile Leu
            100                 105                 110

Ser Ile Ile Asn Ser Met Ala Gln Ser Tyr Ala Lys Arg Ile Gln Gln
        115                 120                 125

Arg Leu Asn Ser Glu Glu Lys Thr Lys
    130                 135
```

<210> 6249
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE

<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6249
Ala Xaa Ser Trp Ala Ala Leu His Ser Gln Val Phe Pro Ala Leu Thr
1 5 10 15

Pro Lys Arg Trp Thr Gln Val Arg Arg Gly Thr Ala Thr Val Gly Gly
20 25 30

Met Ala Ile Leu Gln Val Thr Ala Gly His Pro Leu Ala Met Ala Gln
35 40 45

Gly Pro Ala Gly His Pro Pro Thr Met Val Gln Gly Pro Ala Gly His
50 55 60

Pro Leu Ala Met Ala Gln Gly Pro Ala Gly His Pro Pro Thr Met Val
65 70 75 80

Gln Gly Pro Ala Gly Leu Pro Leu Ala Met Ala Gln Val Thr His Pro
85 90 95

Leu Val His Ile Thr Glu Glu Val Glu Glu Asn Arg Thr Gln Asp Gly
100 105 110

Lys Pro Glu Arg Ile Ala Gln Leu Thr Trp Asn Glu Ala
115 120 125

<210> 6250
<211> 289
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (225)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (228)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (229)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6250

```
Gly Glu Glu Gln Pro Leu Ala Ala Ala Pro Thr Glu Cys Leu Glu Gln
 1               5                  10                  15

Val Ile Gly Gly Ala Gly Asp Pro Gly Thr Trp Ala Ser Phe Pro Ser
            20                  25                  30

Pro Leu Pro Gly Pro Ala Pro Leu Lys Gly Gly Lys Thr Met Ala Thr
        35                  40                  45

Asn Phe Ser Asp Ile Val Lys Gln Gly Tyr Val Lys Met Lys Ser Arg
    50                  55                  60

Lys Leu Gly Ile Tyr Arg Arg Cys Trp Leu Val Phe Arg Lys Ser Ser
65                  70                  75                  80

Ser Lys Gly Pro Gln Arg Leu Glu Lys Tyr Pro Asp Glu Lys Ser Val
                85                  90                  95

Cys Leu Arg Gly Cys Pro Lys Val Thr Glu Ile Ser Asn Val Lys Cys
            100                 105                 110

Val Thr Arg Leu Pro Lys Glu Thr Lys Arg Gln Ala Val Ala Ile Ile
        115                 120                 125

Phe Thr Asp Asp Ser Ala Arg Thr Phe Thr Cys Asp Ser Glu Leu Glu
    130                 135                 140

Ala Glu Glu Trp Tyr Lys Thr Leu Ser Val Glu Cys Leu Gly Ser Arg
145                 150                 155                 160

Leu Asn Asp Ile Ser Leu Gly Glu Pro Asp Leu Leu Ala Pro Gly Val
                165                 170                 175

Gln Cys Glu Gln Thr Asp Arg Phe Asn Val Phe Leu Leu Pro Cys Pro
            180                 185                 190

Asn Leu Asp Val Tyr Gly Glu Cys Lys Leu Gln Ile Thr His Glu Asn
        195                 200                 205

Ile Tyr Leu Trp Asp Ile His Asn Pro Arg Val Lys Leu Val Ser Trp
    210                 215                 220

Xaa Leu Cys Xaa Xaa Arg Arg Tyr Gly Arg Asp Ala Thr Arg Phe Thr
225                 230                 235                 240

Phe Glu Ala Gly Arg Met Cys Asp Ala Gly Glu Gly Leu Tyr Thr Phe
                245                 250                 255

Gln Thr Gln Glu Gly Glu Gln Ile Tyr Gln Arg Val His Ser Ala Thr
            260                 265                 270
```

Leu Ala Ile Ala Glu Gln His Lys Arg Val Leu Leu Glu Met Glu Lys
275 280 285

Thr

<210> 6251
<211> 147
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6251
Arg Xaa Gln Ala Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg
1 5 10 15

Phe Asn Gln Thr Ala Gln Thr Cys Met Glu Ala Ala Ser Asp Arg Leu
20 25 30

Gly Leu Gly Gln Arg Arg Ser Lys Thr Met Val Gly Lys Met Trp Pro
35 40 45

Val Leu Trp Thr Leu Cys Ala Val Arg Val Thr Val Asp Ala Ile Ser
50 55 60

Val Glu Thr Pro Gln Asp Val Leu Arg Ala Ser Gln Gly Lys Ser Val
65 70 75 80

Thr Leu Pro Cys Thr Tyr His Thr Ser Thr Ser Ser Arg Glu Gly Leu
85 90 95

Ile Gln Trp Asp Lys Leu Leu Leu Thr His Thr Glu Arg Val Val Ile
100 105 110

Trp Pro Phe Ser Asn Lys Asn Tyr Ile His Gly Glu Leu Tyr Lys Asn
115 120 125

Arg Val Ser Ile Ser Asn Asn Ala Glu Gln Ser Asp Ala Ser Ser Pro
130 135 140

Leu Ile Ser
145

<210> 6252
<211> 179
<212> PRT
<213> Homo sapiens

<400> 6252
Pro Arg Gly Thr Ser Arg Arg Ser Ala Trp Pro Lys Met Ala Ala Ser
1 5 10 15

Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser Trp Ser Arg Glu
20 25 30

Leu Pro Cys Ala Trp Arg Ala Leu His Thr Ser Pro Val Cys Ala Lys
35 40 45

Asn Arg Ala Ala Arg Val Arg Val Ser Lys Gly Asp Lys Pro Val Thr
50 55 60

Tyr Glu Glu Ala His Ala Pro His Tyr Ile Ala His Arg Lys Gly Trp
65 70 75 80

Leu Ser Leu His Thr Gly Asn Leu Asp Gly Glu Asp His Ala Ala Glu
85 90 95

Arg Thr Val Glu Asp Val Phe Leu Arg Lys Phe Met Trp Gly Thr Phe
100 105 110

Pro Gly Cys Leu Ala Asp Gln Leu Val Leu Lys Arg Arg Gly Asn Gln
115 120 125

Leu Glu Ile Cys Ala Val Val Leu Arg Gln Leu Ser Pro His Lys Tyr
130 135 140

Tyr Phe Leu Val Gly Tyr Ser Glu Thr Leu Leu Ser Tyr Phe Tyr Lys
145 150 155 160

Cys Pro Val Arg Leu His Leu Gln Thr Val Pro Ser Lys Val Val Tyr
165 170 175

Lys Tyr Leu

<210> 6253
<211> 288
<212> PRT
<213> Homo sapiens

<400> 6253
Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln

```
 1               5                  10                  15

Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile
            20                  25                  30

Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser
        35                  40                  45

Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro
    50                  55                  60

Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys
65                  70                  75                  80

Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala
                85                  90                  95

Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn
            100                 105                 110

Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu
        115                 120                 125

Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln
    130                 135                 140

Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro
145                 150                 155                 160

Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
                165                 170                 175

Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr
            180                 185                 190

Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr
        195                 200                 205

Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp
    210                 215                 220

Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg
225                 230                 235                 240

Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile
                245                 250                 255

Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile
            260                 265                 270

Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln
```

275 280 285

<210> 6254
<211> 165
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (158)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6254
Gly Val Thr Arg Pro Thr Arg Ala Pro Arg Phe Ala Ser Ala Ala Ser
1 5 10 15

Trp Pro Lys Gly Gly Asp Arg Gly Gly Trp Arg Gly Ala Ala Arg Thr
20 25 30

Arg Ser Pro Gly Ala Gly Pro Val Arg Thr Ala Arg Glu Gly Arg Ser
35 40 45

Val Gly Arg Ser Arg Pro Arg Asp Ser Ile Ser Ala Arg Ser Asp Asn
50 55 60

Ser Pro Phe Pro Trp Arg Ser Leu Arg Ala Trp His Pro Ala Gly Arg
65 70 75 80

Leu Lys Thr Val Val Ser Ser Ile Ala Ser Leu Asp Leu Ala Thr Ile
85 90 95

Ser Glu Met Ser Ser Arg Ser Thr Lys Asp Leu Ile Lys Ser Lys Trp
100 105 110

Gly Ser Lys Pro Ser Asn Ser Lys Ser Glu Thr Thr Leu Glu Lys Leu
115 120 125

Lys Gly Glu Ile Ala His Leu Lys Thr Ser Val Asp Glu Ile Thr Ser
130 135 140

Gly Lys Gly Lys Leu Thr Asp Lys Glu Arg Gln Arg Phe Xaa Glu Lys
145 150 155 160

Ile Arg Val Leu Glu
165

<210> 6255
<211> 189
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (137)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6255
Ser Thr Gly Pro Cys Pro Ser His Gly Gln Arg Phe Glu Ser Trp Leu
1 5 10 15

Ser Cys Thr Cys Val Trp Pro Lys Ala Lys Cys Ala Leu Leu Arg Asp
20 25 30

Asp Leu Val Leu Val Asp Ser Pro Gly Thr Asp Val Thr Thr Glu Leu
35 40 45

Asp Ser Trp Ile Asp Lys Phe Cys Leu Asp Ala Asp Val Phe Val Leu
50 55 60

Val Ala Asn Ser Glu Ser Thr Leu Met Asn Thr Glu Lys His Phe Phe
65 70 75 80

His Lys Val Asn Glu Arg Leu Ser Lys Pro Asn Ile Phe Ile Leu Asn
85 90 95

Asn Arg Trp Asp Ala Ser Ala Ser Glu Pro Glu Tyr Met Glu Asp Val
100 105 110

Arg Arg Gln His Met Glu Arg Cys Leu His Phe Leu Val Glu Glu Leu
115 120 125

Lys Val Val Asn Ala Leu Glu Ala Xaa Asn Arg Ile Phe Phe Val Ser
130 135 140

Ala Lys Glu Val Leu Ser Ala Arg Lys Gln Lys Ala Gln Gly Met Pro
145 150 155 160

Glu Ser Gly Val Ala Leu Ala Glu Gly Phe His Ala Arg Leu Gln Glu
165 170 175

Phe Gln Asn Phe Glu Gln Ile Phe Glu Val Gly Ile Leu
180 185

<210> 6256
<211> 337
<212> PRT
<213> Homo sapiens

<400> 6256

```
Arg Pro Asp Leu Ala Thr Met Arg Ala Leu Leu Ala Arg Leu Leu Leu
  1               5                  10                  15

Cys Val Leu Val Val Ser Asp Ser Lys Gly Ser Asn Glu Leu His Gln
             20                  25                  30

Val Pro Ser Asn Cys Asp Cys Leu Asn Gly Gly Thr Cys Val Ser Asn
         35                  40                  45

Lys Tyr Phe Ser Asn Ile His Trp Cys Asn Cys Pro Lys Lys Phe Gly
     50                  55                  60

Gly Gln His Cys Glu Ile Asp Lys Ser Lys Thr Cys Tyr Glu Gly Asn
 65                  70                  75                  80

Gly His Phe Tyr Arg Gly Lys Ala Ser Thr Asp Thr Met Gly Arg Pro
                 85                  90                  95

Cys Leu Pro Trp Asn Ser Ala Thr Val Leu Gln Gln Thr Tyr His Ala
            100                 105                 110

His Arg Ser Asp Ala Leu Gln Leu Gly Leu Gly Lys His Asn Tyr Cys
        115                 120                 125

Arg Asn Pro Asp Asn Arg Arg Arg Pro Trp Cys Tyr Val Gln Val Gly
    130                 135                 140

Leu Lys Pro Leu Val Gln Glu Cys Met Val His Asp Cys Ala Asp Gly
145                 150                 155                 160

Lys Lys Pro Ser Ser Pro Pro Glu Glu Leu Lys Phe Gln Cys Gly Gln
                165                 170                 175

Lys Thr Leu Arg Pro Arg Phe Lys Ile Ile Gly Gly Glu Phe Thr Thr
            180                 185                 190

Ile Glu Asn Gln Pro Trp Phe Ala Ala Ile Tyr Arg Arg His Arg Gly
        195                 200                 205

Gly Ser Val Thr Tyr Val Cys Gly Gly Ser Leu Ile Ser Pro Cys Trp
    210                 215                 220

Val Ile Ser Ala Thr His Cys Phe Ile Asp Tyr Pro Lys Lys Glu Asp
225                 230                 235                 240
```

```
Tyr Ile Val Tyr Leu Gly Arg Ser Arg Leu Asn Ser Asn Thr Gln Gly
                245                 250                 255

Glu Met Lys Phe Glu Val Glu Asn Leu Ile Leu His Lys Asp Tyr Ser
            260                 265                 270

Ala Asp Thr Leu Ala His His Asn Asp Ile Ala Leu Leu Lys Ile Arg
        275                 280                 285

Ser Lys Glu Gly Arg Cys Ala Gln His Pro Gly Leu Tyr Arg Pro Ser
    290                 295                 300

Ala Cys Pro Arg Cys Ile Thr Ile Pro Ser Leu Ala Gln Ala Val Arg
305                 310                 315                 320

Ser Leu Ala Leu Glu Lys Arg Ile Leu Pro Thr Ile Ser Ile Arg Ser
                325                 330                 335

Ser
```

<210> 6257
<211> 89
<212> PRT
<213> Homo sapiens

<400> 6257

```
Asn Lys Lys Lys Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro
  1               5                  10                  15

Val Pro Asn Ser Pro Tyr Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val
            20                  25                  30

Val Leu Gln Arg Arg Asp Trp Glu Asn Pro Gly Val Thr Gln Leu Asn
        35                  40                  45

Arg Leu Ala Ala His Pro Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu
    50                  55                  60

Ala Arg Thr Asp Arg Leu Pro Thr Val Ala Gln Pro Glu Trp Arg Met
65                  70                  75                  80

Ala Asn Cys Lys Ala Leu Ile Phe Trp
                85
```

<210> 6258
<211> 370

<212> PRT
<213> Homo sapiens

<400> 6258

```
Gly Thr Pro Ala Gly Thr Gly Pro Glu Phe Pro Gly Arg Pro Thr Arg
  1               5                  10                  15

Pro Gly Lys Leu Val Ala Leu Val Leu Leu Gly Val Gly Leu Ser Leu
             20                  25                  30

Val Gly Glu Met Phe Leu Ala Phe Arg Glu Arg Val Asn Ala Ser Arg
         35                  40                  45

Glu Val Glu Pro Val Glu Pro Glu Asn Cys His Leu Ile Glu Glu Leu
     50                  55                  60

Glu Ser Gly Ser Glu Asp Ile Asp Ile Leu Pro Ser Gly Leu Ala Phe
 65                  70                  75                  80

Ile Ser Ser Gly Leu Lys Tyr Pro Gly Met Pro Asn Phe Ala Pro Asp
                 85                  90                  95

Glu Pro Gly Lys Ile Phe Leu Met Asp Leu Asn Glu Gln Asn Pro Arg
            100                 105                 110

Ala Gln Ala Leu Glu Ile Ser Gly Gly Phe Asp Lys Glu Leu Phe Asn
        115                 120                 125

Pro His Gly Ile Ser Ile Phe Ile Asp Lys Asp Asn Thr Val Tyr Leu
    130                 135                 140

Tyr Val Val Asn His Pro His Met Lys Ser Thr Val Glu Ile Phe Lys
145                 150                 155                 160

Phe Glu Glu Gln Gln Arg Ser Leu Val Tyr Leu Lys Thr Ile Lys His
                165                 170                 175

Glu Leu Leu Lys Ser Val Asn Asp Ile Val Val Leu Gly Pro Glu Gln
            180                 185                 190

Phe Tyr Ala Thr Arg Asp His Tyr Phe Thr Asn Ser Leu Leu Ser Phe
        195                 200                 205

Phe Glu Met Ile Leu Asp Leu Arg Trp Thr Tyr Val Leu Phe Tyr Ser
    210                 215                 220

Pro Arg Glu Val Lys Val Val Ala Lys Gly Phe Cys Ser Ala Asn Gly
225                 230                 235                 240

Ile Thr Val Ser Ala Asp Gln Lys Tyr Val Tyr Val Ala Asp Val Ala
                245                 250                 255
```

```
Ala Lys Asn Ile His Ile Met Glu Lys His Asp Asn Trp Asp Leu Thr
            260                 265                 270

Gln Leu Lys Val Ile Gln Leu Gly Thr Leu Val Asp Asn Leu Thr Val
        275                 280                 285

Asp Pro Ala Thr Gly Asp Ile Leu Ala Gly Cys His Pro Asn Pro Met
    290                 295                 300

Lys Leu Leu Asn Tyr Asn Pro Glu Asp Pro Pro Gly Ser Glu Val Leu
305                 310                 315                 320

Arg Ile Gln Asn Val Leu Ser Glu Lys Pro Arg Val Ser Thr Val Tyr
                325                 330                 335

Ala Asn Asn Gly Ser Val Leu Gln Gly Thr Ser Val Ala Ser Val Tyr
            340                 345                 350

His Gly Lys Ile Leu Ile Gly Thr Val Phe His Lys Thr Leu Tyr Cys
        355                 360                 365

Glu Leu
    370
```

<210> 6259
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6259

```
Leu Met Gln Ala Ile Ser Leu Phe Ser Xaa Asp Arg Pro Gly Val Leu
  1               5                  10                  15

Gln His Arg Val Val Asp Gln Leu Gln Glu Gln Phe Ala Ile Thr Leu
             20                  25                  30

Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro Ala His Arg Phe Leu
         35                  40                  45

Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu Arg Ser Ile Asn Ala
     50                  55                  60

Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp Ile His Pro Phe Ala
```

65 70 75 80

Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr Gly Ser
85 90

<210> 6260
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6260
Val Ile Lys Leu Ile Cys Pro Ala Ala Phe Pro Val Tyr Phe Gln Asp
1 5 10 15

Met Ala Arg Gly Cys Val Cys Ser Leu Cys Ala Ser Val Cys Ile Xaa
20 25 30

Leu Ser Ser Leu Phe Pro Leu Leu Pro Ser Val His Ser Val Asn Ile
35 40 45

Ile Ser Cys Leu Xaa Leu Ser Lys Cys Phe Glu Ser Leu Asn Ser Cys
50 55 60

Val Ser Ile Leu Ser Thr Ile Pro Ile Ala Val Leu His His Lys Ser
65 70 75 80

Pro Ile Gly Xaa Tyr Pro
85

<210> 6261
<211> 95
<212> PRT

<213> Homo sapiens

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (82)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (94)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6261
Ala Ser Phe Leu Leu Glu Leu Leu Val Leu Pro Ala Ser Thr Thr His
1 5 10 15

Pro Cys Ser Ala Glu Pro Leu Gly Ala Glu Trp Gln Glu Pro Gln Gly
20 25 30

Cys Pro Ile Trp Val Trp Leu Ala Gly Ser Leu Thr Ser Val Ile Cys
35 40 45

Phe Leu Pro Phe Gln Ile Met Arg Ile Lys Pro His Gln Gly Gln His
50 55 60

Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys Glu Cys Arg Xaa
65 70 75 80

Lys Xaa Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly Pro Xaa Ser
85 90 95

<210> 6262
<211> 127
<212> PRT
<213> Homo sapiens

<400> 6262
Ala Asp Asn Asn Phe Thr Gln Glu Thr Ala Met Thr Met Ile Thr Pro
1 5 10 15

Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
20 25 30

Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn

```
Gly Asp Asp Lys Val Lys Lys Ala Arg Ile Ala Met Gly Gly Gly Ile
145                 150                 155                 160

Ile Phe Ile Val Ala Gly Leu Ala Ala Leu Val Ala Cys Ser Trp Tyr
                165                 170                 175

Gly His Gln Ile Val Thr Asp Phe Tyr Asn Pro Leu Ile Pro Thr Asn
            180                 185                 190

Ile Lys Tyr Glu Phe Gly Pro Ala Ile Phe Ile Gly Trp Ala Gly Ser
        195                 200                 205

Ala Leu Val Ile Leu Gly Gly Ala Leu Leu Ser Cys Ser Cys Pro Gly
    210                 215                 220

Asn Glu Ser Lys Ala Gly Tyr Arg Ala Pro Arg Ser Tyr Pro Lys Ser
225                 230                 235                 240

Asn Ser Ser Lys Glu Tyr Val
                245
```

<210> 6264
<211> 145
<212> PRT
<213> Homo sapiens

<400> 6264

```
Pro Asp Ser Val Phe Ser Pro Ala Ala Ser Pro Thr Lys Glu Ile Gln
  1               5                  10                  15

Val Lys Lys Tyr Lys Cys Gly Leu Ile Lys Pro Cys Pro Ala Asn Tyr
             20                  25                  30

Phe Ala Phe Lys Ile Cys Ser Gly Ala Ala Asn Val Val Gly Pro Thr
         35                  40                  45

Met Cys Phe Glu Asp Arg Met Ile Met Ser Pro Val Lys Asn Asn Val
     50                  55                  60

Gly Arg Gly Leu Asn Ile Ala Leu Val Asn Gly Thr Thr Gly Ala Val
 65                  70                  75                  80

Leu Gly Gln Lys Ala Phe Asp Met Tyr Ser Gly Asp Val Met His Leu
                85                  90                  95

Val Lys Phe Leu Lys Glu Ile Pro Gly Gly Ala Leu Val Leu Val Ala
            100                 105                 110
```

```
Ser Tyr Asp Asp Pro Gly Thr Lys Met Asn Asp Glu Ser Arg Lys Leu
        115                 120                 125

Phe Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu Gly Phe Gly Thr
    130                 135                 140

Val
145
```

<210> 6265
<211> 66
<212> PRT
<213> Homo sapiens

<400> 6265

```
Leu Glu Ser Arg Ser Cys Thr Pro Leu Ile Phe Leu Leu Lys His Leu
  1               5                  10                  15

Lys Val Tyr Ile Gly Cys Gln Met Ser Asn Ile Thr Tyr Phe Ile Leu
             20                  25                  30

Phe Ser Ser Asn Leu Tyr Phe Thr Val Val Gln Gly Met Lys Glu Ala
         35                  40                  45

Gln Glu Arg Leu Thr Gly Asp Ala Phe Arg Lys Lys His Leu Glu Asp
     50                  55                  60

Glu Leu
 65
```

<210> 6266
<211> 134
<212> PRT
<213> Homo sapiens

<400> 6266

```
Ala Arg Gly Pro Arg Gly Leu Ala Pro Pro Arg Pro Ala Arg Pro Pro
  1               5                  10                  15

Pro Gly Gly Met Ser Tyr Lys Pro Asn Leu Ala Ala His Met Pro Ala
             20                  25                  30

Ala Ala Leu Asn Ala Ala Gly Ser Val His Ser Pro Ser Thr Ser Met
         35                  40                  45

Ala Thr Ser Ser Gln Tyr Arg Gln Leu Leu Ser Asp Tyr Gly Pro Pro
     50                  55                  60
```

```
Ser Leu Gly Tyr Thr Gln Gly Thr Gly Asn Ser Gln Val Pro Gln Ser
 65                  70                  75                  80

Lys Tyr Ala Glu Leu Leu Ala Ile Ile Glu Glu Leu Gly Lys Glu Ile
                 85                  90                  95

Arg Pro Thr Tyr Ala Gly Ser Lys Ser Ala Met Glu Arg Leu Lys Arg
            100                 105                 110

Gly Ile Ile His Ala Arg Gly Leu Val Arg Glu Cys Leu Ala Glu Thr
        115                 120                 125

Glu Arg Asn Ala Arg Ser
    130
```

<210> 6267
<211> 201
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (119)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6267

```
Xaa Xaa Leu Thr Lys Gly Asn Lys Ser Xaa Xaa Leu His Arg Gly Val
  1               5                  10                  15
```

```
Gly Arg Ser Arg Thr Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr
            20                  25                  30

Ser Ile Gly Thr Gly Gly Phe Ala Lys Val Lys Leu Ala Cys His Ile
        35                  40                  45

Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp Lys Asn Thr Leu
    50                  55                  60

Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala Leu Lys Asn
65                  70                  75                  80

Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val Leu Glu Thr Ala
                85                  90                  95

Asn Lys Ile Phe Met Val Leu Glu Tyr Cys Pro Gly Gly Glu Leu Phe
            100                 105                 110

Asp Tyr Ile Ile Ser Gln Xaa Arg Leu Ser Glu Glu Glu Thr Arg Val
        115                 120                 125

Val Phe Arg Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly
    130                 135                 140

Tyr Ala His Arg Asp Leu Lys Pro Glu Asn Leu Leu Phe Asp Glu Tyr
145                 150                 155                 160

His Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly
                165                 170                 175

Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr Ala
            180                 185                 190

Ala Pro Glu Leu Ile Gln Gly Lys Ser
        195                 200
```

<210> 6268
<211> 355
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (233)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (264)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (302)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (305)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (313)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (344)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (352)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6268

```
Arg Pro Thr Arg Pro Val Gln Tyr Glu Leu Trp Ala Ala Leu Pro Gly
  1               5                  10                  15

Ala Ser Gly Val Ala Leu Ala Cys Cys Phe Val Ala Ala Ala Val Ala
             20                  25                  30

Leu Arg Trp Ser Gly Arg Arg Thr Ala Val Ala Arg Trp Ser Gly Arg
         35                  40                  45

Asp Arg Gly Ser Glu Arg Ala Trp Arg Thr Trp Thr Gly Arg Arg Thr
     50                  55                  60

Phe Arg Leu Gln Asn Pro Asp Leu Asp Ser Glu Ala Leu Leu Ala Leu
 65                  70                  75                  80

Pro Leu Pro Gln Leu Val Gln Lys Leu His Ser Arg Glu Leu Ala Pro
                 85                  90                  95

Glu Ala Val Leu Phe Thr Tyr Val Gly Lys Ala Trp Glu Val Asn Lys
            100                 105                 110

Gly Thr Asn Cys Val Thr Ser Tyr Leu Ala Asp Cys Glu Thr Gln Leu
```

```
        115                 120                 125

Ser Gln Ala Pro Arg Gln Gly Leu Leu Tyr Gly Val Pro Val Ser Leu
    130                 135                 140

Lys Glu Cys Phe Thr Tyr Lys Gly Gln Asp Ser Thr Leu Gly Leu Ser
145                 150                 155                 160

Leu Asn Glu Gly Val Pro Ala Glu Cys Asp Ser Val Val Val His Val
                165                 170                 175

Leu Lys Leu Gln Gly Ala Val Pro Phe Val His Thr Asn Val Pro Gln
            180                 185                 190

Ser Met Phe Ser Tyr Asp Cys Ser Asn Pro Leu Phe Gly Gln Thr Val
        195                 200                 205

Asn Pro Trp Lys Ser Ser Lys Ser Pro Gly Gly Ser Ser Gly Gly Glu
    210                 215                 220

Gly Ala Leu Ile Gly Ser Gly Gly Xaa Pro Leu Gly Leu Gly Thr Asp
225                 230                 235                 240

Ile Gly Gly Ser Ile Arg Phe Pro Ser Ser Phe Cys Gly Ile Cys Gly
                245                 250                 255

Leu Lys Pro Thr Gly Asn Pro Xaa Gln Cys Val Ser Pro Trp Ala Pro
            260                 265                 270

Trp Pro Gly Thr Trp Lys Ser Leu Ala Leu Val Pro Ala Asn Pro Ala
        275                 280                 285

Cys Ala Lys Asp Met Phe Pro Leu Gly Pro Asn Val Pro Xaa Leu Pro
    290                 295                 300

Xaa Lys Lys Arg Ser Thr Pro Ser Xaa Asn Pro Cys Val Trp Gly Thr
305                 310                 315                 320

Met Arg Ile Asp Asn Tyr Thr Met Pro Ser Arg His Glu Ala Ala Leu
                325                 330                 335

Leu Gly Asn Lys Gln Ser Leu Xaa Trp Gly Thr Pro Ala Ser Cys Xaa
            340                 345                 350

Ser Lys Thr
        355
```

<210> 6269
<211> 133

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6269
Xaa Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala
1 5 10 15

Val Xaa Ser Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser
20 25 30

Ala Arg Gly Thr Phe Phe Lys Met Glu Leu Phe Glu Gly Met Arg Glu
35 40 45

Ser Thr Lys Ile Ser Ser Leu Leu Ala Glu Leu Glu Ala Ile Gln Arg
50 55 60

Asn Ser Ala Ser Gln Lys Ser Val Ile Val Ser Gln Trp Thr Asn Met
65 70 75 80

Leu Lys Val Val Ala Leu His Leu Lys Lys His Gly Leu Thr Tyr Ala
85 90 95

Thr Ile Asp Gly Ser Val Asn Pro Lys Gln Arg Met Asp Leu Val Glu
100 105 110

Ala Phe Asn His Ser Arg Gly Pro Gln Val Met Leu Ile Ser Leu Leu
115 120 125

Ala Gly Val Leu Val
130

<210> 6270
<211> 466
<212> PRT
<213> Homo sapiens

<400> 6270
Asn Thr Val Met Gly Arg Lys Lys Lys Lys Gln Leu Lys Pro Trp Cys
1 5 10 15

```
Trp Tyr Cys Asn Arg Asp Phe Asp Asp Glu Lys Ile Leu Ile Gln His
            20                  25                  30

Gln Lys Ala Lys His Phe Lys Cys His Ile Cys His Lys Lys Leu Tyr
        35                  40                  45

Thr Gly Pro Gly Leu Ala Ile His Cys Met Gln Val His Lys Glu Thr
    50                  55                  60

Ile Asp Ala Val Pro Asn Ala Ile Pro Gly Arg Thr Asp Ile Glu Leu
65                  70                  75                  80

Glu Ile Tyr Gly Met Glu Gly Ile Pro Glu Lys Asp Met Asp Glu Arg
                85                  90                  95

Arg Arg Leu Leu Glu Gln Lys Thr Gln Glu Ser Gln Lys Lys Lys Gln
            100                 105                 110

Gln Asp Asp Ser Asp Glu Tyr Asp Asp Asp Asp Ser Ala Ala Ser Thr
        115                 120                 125

Ser Phe Gln Pro Gln Pro Val Gln Pro Gln Gln Gly Tyr Ile Pro Pro
    130                 135                 140

Met Ala Gln Pro Gly Leu Pro Pro Val Pro Gly Ala Pro Gly Met Pro
145                 150                 155                 160

Pro Gly Ile Pro Pro Leu Met Pro Gly Val Pro Pro Leu Met Pro Gly
                165                 170                 175

Met Pro Pro Val Met Pro Gly Met Pro Pro Gly Leu His His Gln Arg
            180                 185                 190

Lys Tyr Thr Gln Ser Phe Cys Gly Glu Asn Ile Met Met Pro Met Gly
        195                 200                 205

Gly Met Met Pro Pro Gly Pro Gly Ile Pro Pro Leu Met Pro Gly Met
    210                 215                 220

Pro Pro Gly Met Pro Pro Pro Val Pro Arg Pro Gly Ile Pro Pro Met
225                 230                 235                 240

Thr Gln Ala Gln Ala Val Ser Ala Pro Gly Ile Leu Asn Arg Pro Pro
                245                 250                 255

Ala Pro Thr Ala Thr Val Pro Ala Pro Gln Pro Pro Val Thr Lys Pro
            260                 265                 270

Leu Phe Pro Ser Ala Gly Gln Ala Gln Ala Ala Val Gln Gly Pro Val
        275                 280                 285
```

```
Gly Thr Asp Phe Lys Pro Leu Asn Ser Thr Pro Ala Thr Thr Thr Glu
    290                 295                 300

Pro Pro Lys Pro Thr Phe Pro Ala Tyr Thr Gln Ser Thr Ala Ser Thr
305                 310                 315                 320

Thr Ser Thr Thr Asn Ser Thr Ala Ala Lys Pro Ala Ala Ser Ile Thr
                325                 330                 335

Ser Lys Pro Ala Thr Leu Thr Thr Thr Ser Ala Thr Ser Lys Leu Ile
            340                 345                 350

His Pro Asp Glu Asp Ile Ser Leu Glu Glu Arg Arg Ala Gln Leu Pro
        355                 360                 365

Lys Tyr Gln Arg Asn Leu Pro Arg Pro Gly Gln Ala Pro Ile Gly Asn
    370                 375                 380

Pro Pro Val Gly Pro Ile Gly Gly Met Met Pro Pro Gln Pro Gly Ile
385                 390                 395                 400

Pro Gln Gln Gln Gly Met Arg Pro Pro Met Pro Pro His Gly Gln Tyr
                405                 410                 415

Gly Gly His His Gln Gly Met Pro Gly Tyr Leu Pro Gly Ala Met Pro
            420                 425                 430

Pro Tyr Gly Gln Gly Pro Pro Met Val Pro Pro Tyr Gln Gly Gly Pro
        435                 440                 445

Pro Arg Pro Pro Met Gly Met Arg Pro Pro Val Met Ser Gln Gly Gly
    450                 455                 460

Arg Tyr
465
```

<210> 6271
<211> 111
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (70)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 6271
His Thr Ala Leu Ser Ala Phe Thr Ala Ile Pro Ala Val Leu Ala Ala
1 5 10 15

Pro Ala Met Gly Leu Glu Leu Phe Leu Asp Leu Val Ser Gln Pro Ser
20 25 30

Arg Ala Val Tyr Ile Phe Ala Lys Lys Asn Gly Ile Pro Leu Glu Leu
35 40 45

Arg Thr Val Asp Leu Val Lys Gly Gly Pro Ser Pro Phe Pro Arg Val
50 55 60

Ser Thr Asn Pro Val Xaa Pro Gln Ala Pro Ala Cys Ser Ala Leu Ser
65 70 75 80

Val Ser Pro Pro His Ser Pro Ser Pro Pro Pro Ala Ala Ser Ala Thr
85 90 95

Arg Glu Cys Cys Gly Leu Ser Gly Leu Glu Gly Ser Gln Xaa Xaa
100 105 110

<210> 6272
<211> 670
<212> PRT
<213> Homo sapiens

<400> 6272
Val Pro Ser Ala Ser Gln Val Arg Ala Ser Leu Pro Glu Pro Arg Asn
1 5 10 15

Ser Ala Ala Ala Met Ala Ser Asn Met Asp Arg Glu Met Ile Leu Ala
20 25 30

Asp Phe Gln Ala Cys Thr Gly Ile Glu Asn Ile Asp Glu Ala Ile Thr
35 40 45

Leu Leu Glu Gln Asn Asn Trp Asp Leu Val Ala Ala Ile Asn Gly Val
50 55 60

Ile Pro Gln Glu Asn Gly Ile Leu Gln Ser Glu Tyr Gly Gly Glu Thr